



Safety Data Sheets



SAFETY DATA SHEET TABLE OF CONTENT

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UNITED STATES
DEPARTMENT OF LABOR

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Hazard Communication Standard: Safety Data Sheets

The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012, requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDSs) (formerly MSDSs or Material Safety Data Sheets) for each hazardous chemical to downstream users to communicate information on these hazards. The information contained in the SDS is largely the same as the MSDS, except now the SDSs are required to be presented in a consistent user-friendly, 16-section format. This brief provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDSs.

The SDS includes information such as the properties of each chemical; the physical, health, and environmental health hazards; protective measures; and safety precautions for handling, storing, and transporting the chemical. The information contained in the SDS must be in English (although it may be in other languages as well). In addition, OSHA requires that SDS preparers provide specific minimum information as detailed in Appendix D of 29 CFR 1910.1200. The SDS preparers may also include additional information in various section(s).

Sections 1 through 8 contain general information about the chemical, identification, hazards, composition, safe handling practices, and emergency control measures (e.g., fire fighting). This information should be helpful to those that need to get the information quickly. Sections 9 through 11 and 16 contain other technical and scientific information, such as physical and chemical properties, stability and reactivity information, toxicological information, exposure control information, and other information including the date of preparation or last revision. The SDS must also state that no applicable information was found when the preparer does not find relevant information for any required element.

The SDS must also contain Sections 12 through 15, to be consistent with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS), but OSHA will not enforce the content of these sections because they concern matters handled by other agencies.

A description of all 16 sections of the SDS, along with their contents, is presented below:

Section 1: Identification

This section identifies the chemical on the SDS as well as the recommended uses. It also provides the essential contact information of the supplier. The required information consists of:

- Product identifier used on the label and any other common names or synonyms by which the substance is known.
- Name, address, phone number of the manufacturer, importer, or other responsible party, and emergency phone number.
- Recommended use of the chemical (e.g., a brief description of what it actually does, such as flame retardant) and any restrictions on use (including recommendations given by the supplier).¹

Section 2: Hazard(s) Identification

This section identifies the hazards of the chemical presented on the SDS and the appropriate warning information associated with those hazards. The required information consists of:

- The hazard classification of the chemical (e.g., flammable liquid, category¹).
- Signal word.
- Hazard statement(s).
- Pictograms (the pictograms or hazard symbols may be presented as graphical reproductions of the symbols in black and white or be a description of the name of the symbol (e.g., skull and crossbones, flame).
- Precautionary statement(s).
- Description of any hazards not otherwise classified.
- For a mixture that contains an ingredient(s) with unknown toxicity, a statement describing how much (percentage) of the mixture consists of ingredient(s) with unknown acute toxicity. Please note that this is a total percentage of the mixture and not tied to the individual ingredient(s).

Section 3: Composition/Information on Ingredients

This section identifies the ingredient(s) contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information consists of:

Substances

- Chemical name.

- Common name and synonyms.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical.

Mixtures

- Same information required for substances.
- The chemical name and concentration (i.e., exact percentage) of all ingredients which are classified as health hazards and are:
 - Present above their cut-off/concentration limits or
 - Present a health risk below the cut-off/concentration limits.
- The concentration (exact percentages) of each ingredient must be specified except concentration ranges may be used in the following situations:
 - A trade secret claim is made,
 - There is batch-to-batch variation, or
 - The SDS is used for a group of substantially similar mixtures.

Chemicals where a trade secret is claimed

- A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

Section 4: First-Aid Measures

This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical. The required information consists of:

- Necessary first-aid instructions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Description of the most important symptoms or effects, and any symptoms that are acute or delayed.
- Recommendations for immediate medical care and special treatment needed, when necessary.

Section 5: Fire-Fighting Measures

This section provides recommendations for fighting a fire caused by the chemical. The required information consists of:

- Recommendations of suitable extinguishing equipment, and information about extinguishing equipment that is not appropriate for a particular situation.
- Advice on specific hazards that develop from the chemical during the fire, such as any hazardous combustion products created when the chemical burns.
- Recommendations on special protective equipment or precautions for firefighters.

Section 6: Accidental Release Measures

This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment. It may also include recommendations distinguishing between responses for large and small spills where the spill volume has a significant impact on the hazard. The required information may consist of recommendations for:

- Use of personal precautions (such as removal of ignition sources or providing sufficient ventilation) and protective equipment to prevent the contamination of skin, eyes, and clothing.
- Emergency procedures, including instructions for evacuations, consulting experts when needed, and appropriate protective clothing.
- Methods and materials used for containment (e.g., covering the drains and capping procedures).
- Cleanup procedures (e.g., appropriate techniques for neutralization, decontamination, cleaning or vacuuming; adsorbent materials; and/or equipment required for containment/clean up)

Section 7: Handling and Storage

This section provides guidance on the safe handling practices and conditions for safe storage of chemicals. The required information consists of:

- Precautions for safe handling, including recommendations for handling incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general hygiene practices (e.g., eating, drinking, and smoking in work areas is prohibited).
- Recommendations on the conditions for safe storage, including any incompatibilities. Provide advice on specific storage requirements (e.g., ventilation requirements)

Section 8: Exposure Controls/Personal Protection

This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure. The required information consists of:

- OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.
- Appropriate engineering controls (e.g., use local exhaust ventilation, or use only in an enclosed system).
- Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as personal protective equipment (PPE) (e.g., appropriate types of eye, face, skin or respiratory protection needed based on hazards and potential exposure).
- Any special requirements for PPE, protective clothing or respirators (e.g., type of glove material, such as PVC or nitrile rubber gloves; and breakthrough time of the glove material).

Section 9: Physical and Chemical Properties

This section identifies physical and chemical properties associated with the substance or mixture. The minimum required information consists of:

- Appearance (physical state, color, etc.);
- Upper/lower flammability or explosive limits;
- Odor;
- Vapor pressure;
- Odor threshold;
- Vapor density;
- pH;
- Relative density;
- Melting point/freezing point;
- Solubility(ies);
- Initial boiling point and boiling range;
- Flash point;
- Evaporation rate;
- Flammability (solid, gas);
- Upper/lower flammability or explosive limits;
- Vapor pressure;
- Vapor density;
- Relative density;
- Solubility(ies);
- Partition coefficient: n-octanol/water;
- Auto-ignition temperature;
- Decomposition temperature; and
- Viscosity.

The SDS may not contain every item on the above list because information may not be relevant or is not available. When this occurs, a notation to that effect must be made for that chemical property. Manufacturers may also add other relevant properties, such as the dust deflagration index (Kst) for combustible dust, used to evaluate a dust's explosive potential

Section 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other. The required information consists of:

Reactivity

- Description of the specific test data for the chemical(s). This data can be for a class or family of the chemical if such data adequately represent the anticipated hazard of the chemical(s), where available.

Chemical stability

- Indication of whether the chemical is stable or unstable under normal ambient temperature and conditions while in storage and being handled.
- Description of any stabilizers that may be needed to maintain chemical stability.
- Indication of any safety issues that may arise should the product change in physical appearance.

Other

- Indication of the possibility of hazardous reactions, including a statement whether the chemical will react or polymerize, which could release excess pressure or heat, or create other hazardous conditions. Also, a description of the conditions under which hazardous reactions may occur.
- List of all conditions that should be avoided (e.g., static discharge, shock, vibrations, or environmental conditions that may lead to hazardous conditions).
- List of all classes of incompatible materials (e.g., classes of chemicals or specific substances) with which the chemical could react to produce a hazardous situation.

- List of any known or anticipated hazardous decomposition products that could be produced because of use, storage, or heating. (Hazardous combustion products should also be included in Section 5 (Fire-Fighting Measures) of the SDS.)

Section 11: Toxicological Information

This section identifies toxicological and health effects information or indicates that such data are not available. The required information consists of:

- Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact). The SDS should indicate if the information is unknown.
- Description of the delayed, immediate, or chronic effects from short- and long-term exposure.
- The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.
- Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA

Section 12: Ecological Information (non-mandatory)

This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment. The information may include:

- Data from toxicity tests performed on aquatic and/or terrestrial organisms, where available (e.g., acute or chronic aquatic toxicity data for fish, algae, crustaceans, and other plants; toxicity data on birds, bees, plants).
- Whether there is a potential for the chemical to persist and degrade in the environment either through biodegradation or other processes, such as oxidation or hydrolysis.
- Results of tests of bioaccumulation potential, making reference to the octanol-water partition coefficient (Kow) and the bioconcentration factor (BCF), where available.
- The potential for a substance to move from the soil to the groundwater (indicate results from adsorption studies or leaching studies).
- Other adverse effects (e.g., environmental fate, ozone layer depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and/or global warming potential).

Section 13: Disposal Considerations (non-mandatory)

This section provides guidance on proper disposal practices, recycling or reclamation of the chemical(s) or its container, and safe handling practices. To minimize exposure, this section should also refer the reader to Section 8 (Exposure Controls/Personal Protection) of the SDS. The information may include:

- Description of appropriate disposal containers to use.
- Recommendations of appropriate disposal methods to employ.
- Description of the physical and chemical properties that may affect disposal activities.
- Language discouraging sewage disposal.
- Any special precautions for landfills or incineration activities

Section 14: Transport Information (non-mandatory)

This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea. The information may include:

- UN number (i.e., four-figure identification number of the substance)¹.
- UN proper shipping name¹.
- Transport hazard class(es)¹.
- Packing group number, if applicable, based on the degree of hazard².
- Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)).
- Guidance on transport in bulk (according to Annex II of MARPOL 73/78³ and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)).
- Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (indicate when information is not available).

Section 15: Regulatory Information (non-mandatory)

This section identifies the safety, health, and environmental regulations specific for the product that is not indicated anywhere else on the SDS. The information may include:

- Any national and/or regional regulatory information of the chemical or mixtures (including any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission regulations)

Section 16: Other Information

This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version. You may wish to contact the supplier for an explanation of the changes. Other useful information also may be included here.

Employer Responsibilities

Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways. For example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

References

OSHA, 29 CFR 1910.1200(g) and Appendix D, United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009. These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics page, located at: <https://www.osha.gov/Publications/index.html>.

Disclaimer: This brief provides a general overview of the safety data sheet requirements in the Hazard Communication Standard (see 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200). It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations and decisions by the Occupational Safety and Health Review Commission and the courts for additional guidance on OSHA compliance requirements. Please note that states with OSHA-approved state plans may have additional requirements for chemical safety data sheets, outside of those outlined above. For more information on those standards, please visit: <https://www.osha.gov/dcspp/osp/statestandards.html>.

This is one in a series of informational briefs highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

¹ Chemical, as defined in the HCS, is any substance, or mixture of substances.

² Found in the most recent edition of the United Nations Recommendations on the Transport of Dangerous Goods.

³ MARPOL 73/78 means the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended

For assistance, contact us. We can help. It's confidential



U.S. Department of Labor

<https://www.osha.gov/index.html> (800) 321-OSHA (6742)

DSG BR-3514 2/2012

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Twin Rivers

UNIFIED SCHOOL DISTRICT

Written Hazard Communication Program

General

The following hazard communication program has been established for Twin Rivers Unified School District. This program will be available for review by all employees.

Hazard Determination

Twin Rivers Unified School District will rely on safety data sheets obtained from product suppliers to meet hazard determination requirements.

Labeling

- A. Greg Rash (Director Business Support Services) will be responsible for seeing that all containers entering the workplace are properly labeled.
- B. All labels shall be checked for:
1. Identity of the material.
 2. Appropriate hazard warning for the material.
 3. Name and address of the responsible party. (Only if the container is received from the manufacturer, distributor, or importer.)
- C. Each custodian and supervisor shall be responsible for ensuring that all portable containers used in their work area are labeled with the appropriate identity and hazard warning.

Safety Data Sheets (SDSs)

- A. Joe Angel (Operations Supervisor) will be responsible for compiling and maintaining the master Custodial Chemical SDS file. The file will be kept in/at Operations Office Winona.
- B. Additional copies of SDSs for employee use are located in/at in custodial office at each district site.
- C. SDSs will be available for review to all employees during each work shift. Copies will be available upon request to Head Custodian.
- D. If a required SDS is not received, Joe Angel shall contact the supplier, in writing, to request the MSDS. If an MSDS is not received after two such requests, Joe Angel shall contact the MIOSHA's Construction Safety and Health Division at (517) 322-1856 or General Industry Safety and Health Division (GISHD) at (517) 322-1831, for assistance in obtaining the SDS.

The MIOSHA program does not maintain a library of MSDSs. However, either of the above divisions will assist an employee in obtaining a copy of an MSDS by contacting their employer.

Employee Information and Training

- A. Joe Angel shall coordinate and maintain records of employee hazard communication training, including attendance rosters.
- B. Before their initial work assignment, each new employee will attend a hazard communication training class. The class will provide the following information and training:
- Information:
- X The requirements of the MIOSHA Hazard Communication Standard
 - X All operations in their work area where hazardous chemicals are present
 - X Location and availability of the written hazard communication program, the list of hazardous chemicals, and the SDS
- Training:
- X Methods and observations that can be used to detect the presence or release of hazardous chemicals in the work area
 - X Physical and health hazards of the hazardous chemicals
 - X Measures the employees should take to protect from these hazards
 - X Details of the hazard communication program--including explanation of labeling system and SDSs and how employees can obtain and use hazard information
- C. The employee shall be informed that:
1. The employer is prohibited from discharging, or discriminating against, an employee who exercises his/her rights to obtain information regarding hazardous chemicals used in the workplace.
 2. As an alternative to requesting an SDS from the employer, the employee can seek assistance from the MIOSHA Construction Safety and Health Division, at (517) 322-1856, or the MIOSHA General Industry Safety and Health Division at (517) 322-1831, to obtain the desired SDS.
- D. Before any new physical or health hazard is introduced into the workplace, each employee who may be exposed to the substance will be given information in the same manner as during the hazard communication training class.

List of Hazardous Chemicals

A list of all hazardous chemicals used by Twin Rivers Unified School District is attached to this document. Further information regarding any of these chemicals can be obtained by reviewing its respective MSDS.

Materials which can be purchased by the ordinary household consumer, and which are used in the same fashion and amount as by the ordinary household consumer, are not required to be included in this list. (It is suggested that you maintain a separate list of all materials you consider to be "consumer use" materials.)

Twin Rivers

UNIFIED SCHOOL DISTRICT

Hazardous Material Inventory

- Chisel Degreaser
 - Comet Cleanser
 - Echo 2-cycle oil
 - E-San 64 Mint Disinfectant
 - Gasoline Unleaded
 - Hillyard Green Select Bathroom Cleaner
 - Hillyard Green Select Degreaser
 - Hillyard Green Select Glass Cleaner
 - Hillyard Gum Go Gum Remover
 - Hillyard heavy Duty Floor Cleaner
 - Hillyard Liquid Enzyme II
 - Hillyard Non Acid restroom Disinfectant
 - Hillyard Suprox Cleaner
 - Laundry Bleach
 - Pacific Garden Hand Soap
 - Purel Hand Sanitizer
-
- Revolution Floor Wax
 - Sac Val All Purpose Cleaner
 - Sac Val Green Apple Hand Soap
 - Super Strip Floor Stripper
 - Waxie 764 Lemon Quat Disinfectant
 - Waxie Balance Neutral Cleaner
 - Waxie Dust Mop Treatment
 - Waxie Mean Green All Purpose Degreaser
 - Waxie Rite Away II Graffiti Remover

KLEENIT product line

CHISEL

CONCENTRATED CLEANER - DEGREASER - DEODORIZER

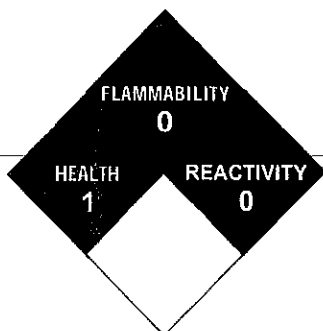
Non-Toxic • Biodegradable • Non-Flammable • Non-Abrasive

Appearance Clear Blue Liquid
Odor Fruity
pH (concentrate) 12.5
Solubility Complete



Biodegradable

Manufactured to
ISO 9002
Specifications
NFPA 704 Hazard Rating:
4=Extreme, 3=High, 2=Moderate
1=Slight, 0=Minimal



Rating for this product:

Health 1 Slight
Fire 0 Will Not Burn
Reactivity 0 Stable

EMERGENCY: (800) 535-5053
24 Hour MSDS Information

Other Useful Products:

PRODUCT NAME	PROD CODE
Lemon Oil	R6500
oil-based wood cleaner	
HD Floor & Cement	P4301
powdered caustic floor cleaner	
Auto Floor Scrub	J3302
liquid detergent for floor machines	

DESCRIPTION

- CHISEL contains concentrated surfactants, builders, degreasers and emulsifiers making it particularly effective on grease and fatty soils.
- Use it on Formica tops, painted walls, floors, tile ovens, grills, appliances, kitchen equipment, porcelain, fiberglass, plastic, vinyl, rubber or any surface not harmed by water. It also degreases engines, vehicles and cleans wheels and white sidewall tires.
- CHISEL also contains water conditioning agents so it works in hard water. It rinses clean and leaves no residue.
- It even works in the laundry as a prespotter.
- CHISEL is *biodegradable*, too.

DIRECTIONS

Automatic car washes: Mix 1 gallon per 55 gallons of water and apply 1 to 3 ounces per vehicle.

Cars, trucks, buses and airplanes: For regular cleaning use at 1:32. Spray or brush on. Rinse off. For stubborn soil and grease, use a 1:10 dilution.

Degreasing: Remove gross soil manually or with high pressure and hot water. Mix 1:10 with hot water and scrub the surface. Let stand for 10 minutes. Rinse with hot water.

Desks, countertops, steel files and plastic: Mix 1 part CHISEL with 64 parts of water. Spray or wipe on. No rinsing is required.

Dishes, glasses, eating utensils: Add to sink 2 ounce of CHISEL to each 5 gallons of warm water. Wash and rinse with hot water and air dry.

Foam cleaning: Mix 4 ounces per gallon of water.

Glass: Dilute 1 part CHISEL with 128 parts of water. Spray on and wipe off.

Gym floor baseboards: Dip a pad of fine steel wool in a 1:10 solution of CHISEL and rub lightly.

Gymnasium and sealed hardwood floors: To remove heel and scuff marks, use a 1:20 dilution. Scrub lightly if needed. Don't flood with cleaner. Use at 1:64 for light and 1:10 for heavy soils.

Hoods filters, and ventilators: Dilute 1 part CHISEL with 10 parts of water. Spray on or allow to soak in the solution scrub and rinse.

DIRECTIONS

Leather: Mix 1 part CHISEL with 15 parts of water. Spray or wipe on. Scrub lightly. Wipe with a clean, wet cloth. No further rinsing is required.

Machinery, motors, parts, equipment: For heavy duty cleaning and degreasing, use a 1:3 dilution in hot water. Scrub if needed. Rinse with hot water.

Painted and hard surfaces: Use 2 ounce of CHISEL per gallon of water.

Rags and dust mops: Soak in 1 part CHISEL in 32 parts of water.

Spray-on, wipe-off cleaning: Mix 1 part CHISEL with 64 parts of water. No rinsing is required.

Steam and high pressure cleaning: Mix 20 ounces per gallon in the concentrate tank. Adjust the final nozzle concentration to 1 ounce per gallon. Use suds level as a gauge of final concentration.

Transportation equipment: 4 ounces per gallon of water.

Varnished walls, woodwork and furniture: For regular cleaning dilute to 1:64. Apply with a sponge or cloth. Use 1:20 for medium and 1:10 for heavy soils.

Venetian blinds: Dilute 1 part CHISEL in 32 parts of water. Immerse the entire blind in the solution, hang at full length and hose off with warm water.

Vinyl, vinyl asbestos, asphalt, rubber, linoleum, marble, terrazzo and cork floor: For damp mopping and automatic machine scrubbing dilute to 1:64. Use at 1:20 for medium and 1:10 for heavy soils.

Washrooms, lavatories, bathrooms, porcelain, tile showers, fixtures: For regular cleaning wipe or spray on a 1:64 dilution. To remove soap scum and heavy dirt, dilute to 1:20. Wipe clean with a damp sponge or cloths.

White sidewall tires: 2 cups to 2 quarts of water.

CAUTION

EYE IRRITANT - Avoid contact with eyes and prolonged contact with skin. Do not ingest.

EYES: Flush with water for 15 minutes. If irritation persists, seek medical attention.

INGESTION: Induce vomiting. Give large quantities of water. If vomiting occurs, keep airways clear and give fluids again. Seek medical attention.

KEEP OUT OF REACH OF CHILDREN

EXSL

FORMULAS THAT MEET THE CHALLENGE

janitorial • restaurant • laundry • auto • industrial
HAYWARD, CA 94544 • 510-324-4567

MATERIAL SAFETY DATA SHEET

EMERGENCY: (800) 545-4536, (510) 828-1077 OR (510) 942-1103

Product Name: **Chisel**

Product Code: J3110

Proper Shipping Name: Not applicable. This is a non-regulated material.

Manufactured by: EXSL/Ultra Labs, Inc.

Effective Date: 7/2/98

Supersedes: None

HAZARDOUS INGREDIENTS

	CAS#	PCNT%	TWA	STEL	SARA III	PROP 65	Carcinogen
Ethylene Glycol Monobutyl Ether	111-76-2	4.00	121 mg/m ³	None	No	No	No
Sodium Metasilicate	6834-92-0	4.00	None	None	No	No	No

PHYSICAL DATA

Boiling Point: 212° F	pH: (Conc.) 12.5	Viscosity: 1-3 cps	Vapor Pressure: @25° C: 10
Specific Gravity: 1.0306	Evaporation Rate: 1.0	Solubility: Complete	Vapor Density: Water-Based
Appearance & Odor: Clear Blue Liquid, Fruity Odor	Reactivity in Water: None	Melting Point: Not App.	Volatiles: @ 212° F: 92%

FIRE & EXPLOSION DATA

Health: 1 ... Slight	NFPA 704 Hazard Rating	Flash Point: None (Cleveland Open Cup)
Fire: 0 ... Will Not Burn	4 = Extreme, 3 = High, 2 = Moderate	Flammability Levels (LEL/UEL): Not App.
Reactivity: 0 ... Stable	1 = Slight, 0 = Minimal	

Extinguishing Media: This product is not combustible. Use water spray, foam, carbon dioxide, or dry chemical.

Fire & Explosion Hazard: ... None.

Conditions to Avoid: Open flames, welding arcs or other high temperature sources that induce thermal decomposition, which produce toxic fumes.

REACTIVITY DATA

Materials to Avoid: Strong acids.

Stability: Stable

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

HEALTH HAZARDS

Eye Contact: Causes moderate to severe irritation. Prolonged and repeated contact can cause redness and tearing.

Skin Contact: May cause dryness with prolonged contact.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Spray or mist can be irritating to the upper respiratory tract.

FIRST AID

Eyes: Flush out immediately for at least 20 minutes with running water and seek medical attention. Washing eyes within one minute is essential to minimizing eye damage. Hold eyelids apart to ensure flushing of the entire surface.

Skin: Wash with water. If irritation persists, seek medical attention.

Ingestion: Never give anything to an unconscious person. If swallowed, induce vomiting. Give large quantities of water or milk. If vomiting occurs, keep airways clear. Seek medical attention.

Inhalation: Move person to fresh air and away from exposure. If breathing is difficult, administer oxygen and seek medical attention. Give artificial respiration if victim is not breathing.

SPILL OR LEAK PROCEDURES

Steps to Contain:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leaks if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (rubber boots and gloves). Contain spills with dry earth, sand or other non-combustible material and transfer to containers. Sweep up powder spills and transfer to containers. DO NOT GET WATER INSIDE CONTAINERS.

Recommended Waste Disposal Method:

The materials resulting from the clean up may be hazardous waste and, therefore, subject to specific regulations. Package, store, transport, and dispose all clean-up materials and any contaminated equipment in accordance with all applicable federal, state, and local health environmental regulations. Shipments of waste materials are subject to manifesting requirements per applicable regulations. Ensure that all responsible federal, state, and local agencies receive proper notification of spills and disposal methods.

SPECIAL PROTECTION & PRECAUTIONS

Respiratory: None under normal use conditions.

Eye: None under normal use conditions.

Storage: Keep in a cool, dry place.

Clothing: None under normal use conditions.

Comments: None under normal use conditions.

Handling: Do not stack or palletize over three high.

USER'S RESPONSIBILITY

It is the user's responsibility to provide a safe workplace. He or she should consider the health hazard and safety information contained herein as a guide and take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

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SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	COMET Powder Cleanser
MANUFACTURER:	Prestige Brands Inc. 90 North Broadway Irvington, NY 10533
EMERGENCY PHONE:	800-926-9441
CHEMICAL NAME:	Mixture
PRODUCT USE:	Household, Industrial and commercial powder cleanser

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	A free flowing green powder with fragrance. May irritate the skin and eyes. Dusts may irritate respiratory tract.
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POTENTIAL HEALTH EFFECTS

EYES:	May irritate the eyes.
SKIN:	May irritate the skin.
INGESTIONS:	May cause irritation and stomach distress.
INHALTION:	May cause irritation to the respiratory tract.
CHRONIC HAZARDS:	Crystalline silica impurity when inhaled above safe exposure limits can cause respiratory system injury and potentially cancer.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	Dermatitis

CARCINOGENICITY

Ingredient Name	OSHA	ACGIH	NTP	IARC
Crystalline Silica	---	Suspect human carcinogen	Known carcinogen	Human carcinogen

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO.	%WT
Limestone	1317-65-3	80 - 90
Crystalline Silica, quartz (impurity)	14808-60-7	0.1 - 2
Sodium Carbonate	497-19-8	5 - 15
SodiumDodecylbenzene Sulfonate	25155-30-0	0.1 - 2
Dichloroisocyanuric Acid	87-90-1	0.1 - 2
Sodium Acetate	127-09-3	0.1 - 2
Calcium Hydroxide	1305-62-0	0.1 - 2
Sodium Alkyl Sulfate	151-21-3	0.1 - 2

SECTION 4: FIRST AID MEASURES

EYES:	Wash with plenty of water for at least 15 minutes. If wearing contact lenses, remove first. If irritation persists, get medical attention.
SKIN:	Wash with plenty of water. If irritation persists, get medical attention.
INGESTION:	If conscious, drink several glasses of water. Do not induce vomiting. Consult a physician or poison control center.
INHALTION:	Remove victim to fresh air. Get medical attention if excessive inhalation occurs.

SECTION 5: FIRE-FIGHTING MEASURES

SAFETY DATA SHEET

FLASH POINT:	Not flammable
FLASH POINT METHOD:	Not applicable
AUTOIGNITION TEMPERATURE:	Not flammable
EXTINGUISHING MEDIA:	Use any standard agent appropriate for the surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	Traces of sulfur oxides, carbon monoxide and carbon dioxide are potential thermal decomposition materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	Sweep and place into container for reuse or disposal.
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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Avoid Contact with eyes. Avoid breathing dust. Store in cool, dry ventilated area.
OTHER PRECAUTIONS:	None indicated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Use local exhaust if dusty or misty conditions prevails.
VENTILATION :	Use local exhaust
RESPIRATORY PROTECTION:	A NIOSH approved dust or mistrespirator should be worn in areas where product dusts or mists are present.
EYE PROTECTION:	Wear safety glasses or goggles, if needed for dusty conditions.
SKIN PROTECTION:	For sensitive skin or prolonged use, wear work gloves.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	A source of running water in the work area is advisable for first aid purposes.

EXPOSURE GUIDELINES:

Ingredient Name	OSHA	ACGIH
Limestone	15 mg/m ³ Total Dust (TWA) 5 mg/m ³ Respirable Dust (TWA)	None established
Crystalline Silica, quartz (Impurity)	(10 mg/m ³)/(%SiO ₂ + 2) Respirable dust (TWA) 30 mg/m ³ /(%SiO ₂ + 2) Total dust (TWA)	0.05 mg/m ³ Respirable dust (TWA)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Green Powder
ODOR:	Odor
PHYSICAL STATE:	Powder
pH (10% aq.):	9.50 – 12.00
BOILING POINT	Not determined
MELTING POINT:	Not determined
FREEZING POINT:	Not determined
VAPOR PRESSURE (mmHg):	Negligible
VAPOR DENSITY (AIR = 1):	Not determined
SPECIFIC GRAVITY (H ₂ O = 1)	1.50
EVAPORATION RATE:	Not determined
VOLATILE ORGANIC COMPOUNDS	0.0 – 0.5%

SAFETY DATA SHEET

(VOC):	
VISCOSITY:	Not applicable (solid)
SOLUBILITY IN WATER:	Partially soluble
PERCENT SOLIDS BY WEIGHT:	99.00 -- 99.50%
PERCENT VOLATILE:	Less than 0.5%

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under anticipated storage and use conditions.
CONDITIONS TO AVOID (STABILITY):	Do not mix with ammonia or other house chemicals as this releases toxic gases.
INCOMPATIBILITY (MATERIAL TO AVOID):	None anticipated
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	None anticipated
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute	Product has not been tested as a mixture. Oral toxicity is estimated to be low.
Chronic	Crystalline silica impurity can cause decreased pulmonary function and/or lung cancer when inhaled above established safe limits over a prolonged period of time.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Data not available.
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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Conform to state, federal and local regulations.
RCRA HAZARD CLASS:	Not a RCRA Hazardous waste if discarded.

The information listed in section 13 is for the product as shipped.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT HAZARD CLASS:	Not regulated in surface transportation
PROPER SHIPPING NAME:	COMET Powder Cleanser (non-hazardous goods)

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA):	All ingredients are listed on the TSCA inventory.
SARA TITLE III (CERCLA):	No RQs or TPQs
311/312 HAZARD CATEGORIES:	Immediate, Delayed

Ingedient Name	RQ	TPQ	SARA 313 Reportable Ingredient
Sodium dodecylbenzene sulfonate	1000	None	No

CALIFONRIA PROPOSITION 65:	This product contains impurity known to the State of California to cause cancer (crystalline silica).
WHMIS CLASSIFICATION (CANADA):	Class D2A, D2B This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS

SAFETY DATA SHEET

	contains all the information required by the Controlled Products Regulations.
CANADIAN CHEMICAL INVENTORY	Ingredients listed on Domestic Substances List (DSL) and Non Domestic Substance List (NDSL).

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICATION:	Health: 1	Flammability: 0	Instability: 0	Other: Not Applicable
HMIS HAZARD CLASSIFICATION:	Health: 1*	Flammability: 0	Physical Hazard: 0	
CURRENT ISSUE DATE:	02/02/2010			
PREVIOUS ISSUE DATE:	01/11/2010			
CHANGES FROM PREVIOUS ISSUE:	Reformatted to ANSI Z129.1-2004 format and updated text throughout SDS			

DISCLAIMER: The information contained on this Safety Data Sheet is believed to be reliable and accurate, but is provided without warranty regarding its accuracy. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1



Material Safety Data Sheet

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1

Company Identification

Spectrum Lubricants Corporation
500 Industrial Park Drive
Selmer, TN 38375-3276
United States of America

Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST
Or (703) 527-3887

Health Emergency

USA: (800) 264-6457 or (731) 645-4972

Product Information

MSDS Requests: (800) 264-6457 or (731) 645-4972
Technical Information: (800) 264-6457 or (731) 645-4972
General Information: vswedley@spectrumcorporation.com

Product Family	Petroleum Lubricating Oil
CAS Number	Mixture

Note: Petroleum lubricating oils with a flashpoint above 200°F, are not regulated by D.O.T standards.

Section 2 HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS

Inhalation:	Inhalation of fumes may result in dizziness, headache and respiratory irritation.
Eye Contact:	Contact with eyes may cause minimal irritation.
Skin Contact:	Mild irritation may occur with prolonged or repeated contact.
Ingestion:	Slightly toxic. Pulmonary aspiration hazard if vomiting occurs.
TLV:	5mg/m3 as mist. ACGIH 1984-85.
Chronic Effects:	Ingredients of this product are <u>not</u> listed as potential carcinogens in

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1

N.T.P. Annual Report on Carcinogens, I.A.R.C. Monographs, or by
O.S.H.A. HCS (g) (2) (vii).

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	COMPONENTS	CAS Number	EU Number	Concentration (%)
Benzenesulfonic acid, propenated, calcium salt, overbased	Performance Additive Mixture	68610-84-4	271-877-7	1.0 – 3.0
Benzenesulfonic acid, C10-60-alkyl derivs., calcium salts		90194-636-7	290-636-7	
Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased		90480-91-4	291-829-9	
Distillates (petroleum), hydrotreated light	Solvent	64742-47-8	265-149-8	5-10
Distillates (petroleum), hydrotreated heavy paraffinic	Base Oil	64742-54-7	265-157-1	82-92
N,N'-di-sec-butyl-p-phenylenediamine	Fuel Stabilizer	101-96-2	202-992-2	<0.3

Note that the chemical identity of some or all of the above components is considered confidential business information and is being withheld as permitted by 29CFR 1910.1200 and various State Right-To-Know Laws.

Section 4 FIRST AID MEASURES

Skin: Wash skin with soap and warm water. Wash clothing before re-use.
Eye: If splashed into eyes flush eyes with clear water for five (5) minutes.
Inhalation: If overcome by fumes remove from exposure immediately.
Ingestion: If ingested, do not induce vomiting. Call a physician.

Section 5 FIRE FIGHTING MEASURES

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

Extinguishing Media:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1

Special Firefighting Procedures: Cool exposed containers with water spray.
Unusual Fire and Explosion Hazards: Pressure increase in over heated closed containers. Cool containers with water spray.

Section 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove ignition sources. Recover Liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.
Waste Disposal: Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

Precautionary Measures:

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Section 7 HANDLING AND STORAGE

General Storage Information:

Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures.

Container Warnings:

Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Section 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

COMPONENTS	Regulatory Agency	Exposure Limit
Performance Additive Mixture	OSHA/ACGIH	5mg/m3 Mist
Solvent	OSHA/ACGIH	5mg/m3 Mist
Base Oil	OSHA/ACGIH	5mg/m3 Mist
Fuel Stabilizer	OSHA/ACGIH	Not Established

Ventilation Procedure: Ventilate as needed to comply with exposure limit.

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1

Gloves Protection: Use impervious gloves to avoid repeated/prolonged skin contact.

Eye Protection: Use goggles/face shield to avoid eye contact.

Work/Hygienic Practices: If clothing becomes contaminated, change to fresh clean clothing. Do not wear until thoroughly laundered.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mmHg) at 20°C:	<1
Specific Gravity at 60°F:	0.93
Water Solubility:	Negligible
Boiling Point:	600+°F
Vapor Density (Air=1):	> 5
Evaporation Rate (BUAC=1):	< 1
Odor:	Mild Petroleum Odor
Appearance:	Green Color Liquid
Viscosity at 100°C CST:	9.1 (typical)
V.O.C.	38 - 78 g/L
Flash Point	240°F
Fire Point	265°F

Section 10 STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Avoid strong oxidants
Polymerization:	Will not occur
Thermal Decomposition:	Partial burning produces fumes, smoke and carbon monoxide.

Section 11 TOXICOLOGY INFORMATION

Not established

Section 12 ECOLOGICAL INFORMATION

Not established

Section 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Assure conformity with applicable disposal regulations.
Dispose of absorbed material at approved waste site.

Product Trade Name: ECHO 2-CYCLE ENGINE OIL 32:1

Section 14 TRANSPORTATION INFORMATION

Note: Petroleum lubricating oils with a flashpoint above 200°F, are not regulated by D.O.T standards.

Section 15 REGULATORY INFORMATION

Chronic Effects: Ingredients of this product are not listed as potential carcinogens in N.T.P. Annual Report on Carcinogens, I.A.R.C. Monographs, or by O.S.H.A. HCS (g) (2) (vii).

Section 16 OTHER INFORMATION

Risk Phrases

R37	Inhalation:	Inhalation of fumes may result in dizziness, headache and respiratory irritation.
R36	Eye Contact:	Contact with eyes may cause minimal irritation.
R38	Skin Contact:	Mild irritation may occur with prolonged or repeated contact.
R22	Ingestion:	Slightly toxic. Pulmonary aspiration hazard if vomiting occurs.

The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose.

BATHROOM BRITE product line

E-SAN 64

ONE-STEP

MINT-SCENTED GERMICIDAL CLEANER AND DEODORANT

Appearance Clear Green Liquid
Odor Mint
pH (conc.) 10.5 - 11.5
Solubility Complete

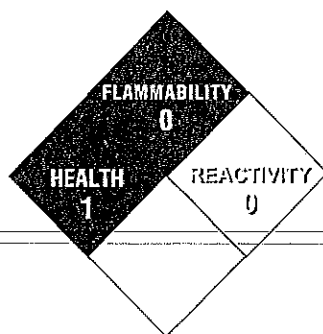


Biodegradable

Manufactured to
ISO 9001
Specifications

☒ USDA Approved

NFPA 704 Hazard Rating:
4=Extreme, 3=High, 2=Moderate
1=Slight, 0=Minimal



Rating for this product:
Health 1 Slight
Fire 0 Will Not Burn
Reactivity ... 0 Stable

EMERGENCY: (800) 535-5053

24 Hour MSDS Information

Other Useful Products:

PRODUCT NAME
CODE
Shower Thick B0302
thick, acid chrome & bowl cleaner
Shower Foam B0300
soap scum & water stain remover
Advantage B0301
thick, acid chrome & bowl cleaner

DESCRIPTION

Active Ingredients

Didecyl dimethyl ammonium chlorides 1.875%
n-Alkyl (C₁₂, 50%; C₁₀, 40%; C₈, 10%)
dimethyl benzyl ammonium chlorides 1.250%

Inert Ingredients 96.875%
Total Ingredients 100.000%

EPA Registration No. 47371-37-83824

EPA Establishment No. 34460-CA-1

A multi-purpose, germicidal detergent effective in the presence of a moderate amount of organic soil (5% serum). Disinfects, cleans, and deodorizes in one labor saving step.

Effective against the following pathogens:

Pseudomonas aeruginosa
Staphylococcus aureus (Staph)
Streptococcus pyogenes (Strep)
Enterobacter aerogenes
Enterobacter cloacae
Escherichia coli
Klebsiella pneumoniae
Proteus mirabilis
Proteus vulgaris
Salmonella enterica
Serratia marcescens
Shigella flexneri
Shigella sonnei
Staphylococcus aureus phage 80 & 81
Staphylococcus epidermidis
Staphylococcus aureus - Methicillin-Resistant [MRSA]
Trichophyton mentagrophytes (Athlete's Foot Fungus)
*Adenovirus Type 3
*Herpes simplex Type 1
*HIV-1 (AIDS virus)
*Influenza A/Texas
*Rubella (German Measles)
*Vaccinia (Pox Virus)
*Avian influenza
*Bovine rhinotracheitis virus
*Infectious bronchitis (Avian IBV)
*Newcastle disease virus
*Aspergillus flavus
*Aspergillus fumigatus
*Aspergillus glaucus var. tonophilus
*Candida albicans

*Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by Influenza A virus. Bathroom Brite E-San 64 is a broad-spectrum hard surface disinfectant that has been shown to be effective against Influenza A/Texas and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

*Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).

Use on washable, hard, nonporous surfaces of metal and steel. Use Bathroom Brite E-San 64 in:

Bathrooms, Kitchens, Dental offices, Hospitals, Medical Offices

(Clinics), Nursing homes, Restaurants and Schools.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

GENERAL USE DIRECTIONS

APPLICATION: For disinfection, remove heavy soil deposits from surface. Then thoroughly wet surface with a solution of 2 ounces of the concentrate per gallon of water. Apply with a cloth, mop, sponge or coarse sprayer, or by soaking. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface, rub with a brush, cloth or sponge. Do not breathe spray. Let solution remain on surface for a minimum of 10 minutes. Rinse or wipe dry with a clean cloth or sponge or allow to air dry. Rinse all surfaces that come in contact with food such as countertops, exterior surfaces of appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes. Rinsing of floors is not necessary unless they are to be waxed or polished. Prepare a fresh solution daily or more often if the solution becomes diluted or visibly soiled.

DIRECTIONS

Bathroom Brite E-San 64 is not to be used as a terminal sterilant / high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. Bathroom Brite E-San 64 may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

USDA: Use in federally inspected meat and poultry plants on all hard, nonporous surfaces in inedible product processing areas, non-processing areas, and / or exterior areas.

USDA: For use in federally inspected meat and poultry plants as a floor and wall cleaner for use in all departments. Food products and packaging materials must be removed from the room or carefully protected. All surfaces must be thoroughly rinsed with potable water.

TOILET BOWLS: To clean, apply diluted solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first pre-clean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in 3 ounces of the diluted solution. Swab the bowl completely using a scrub brush or mop, making sure to get under the rim. Let stand for 10 minutes or overnight, then flush.

MILDEWSTATIC INSTRUCTIONS: Will effectively control the growth of mold and mildew plus the odors caused by them when applied to hard, nonporous surfaces such as walls, floors, and table tops. Apply solution (2 ounces (1/4 cup) per gallon of water) with a cloth, mop, sponge, or coarse sprayer, making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application weekly or when growth reappears.

FOR FUNGICIDAL ACTIVITY: Bathroom Brite E-San 64 is an effective fungicide against *Trichophyton mentagrophytes* (athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Follow disinfection directions.

*KILLS HIV-1 (AIDS VIRUS) ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 (AIDS VIRUS) OF SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS.

PERSONAL PROTECTION: Clean-up must always be done wearing protective gloves, gowns, masks and eye protection.

CLEANING PROCEDURES: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Bathroom Brite E-San 64.

CONTACT TIME: Leave surface wet for 5 minutes at 25°C (77°F) (room temperature). Use a 10-minute contact time for disinfection against all other viruses, fungi, and bacteria claimed.

DISPOSAL OF INFECTIOUS MATERIALS: Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION DIRECTIONS:

For cleaning and disinfecting hard nonporous surfaces: equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, batteries. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 oz. of Bathroom Brite E-San 64 per gallon of water (or equivalent dilution) for a period of 10 minutes. Wipe or allow to air dry. Immerse all animal handling and restraining equipment as well as forks, shovels, and scrapers used to remove litter and manure. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

HEAVY-DUTY CLEANING INSTRUCTIONS:

Use (1 oz of Bathroom Brite E-San 64 per 24 oz of water) (4 to 6 oz of Bathroom Brite E-San 64 per gallon of water) to clean heavily soiled areas.

W A R N I N G
KEEP OUT OF REACH OF CHILDREN

EXSL

FORMULAS THAT MEET THE CHALLENGE

janitorial • restaurant • laundry • auto • industrial

HAYWARD, CA 94544 • 510-324-4567

MATERIAL SAFETY DATA SHEET

EMERGENCY: (800) 535-5053

Product Name: E-San 64 Mint

Product Code: B3304

Proper Shipping Name: Not applicable. This is a non-regulated material.

Distributed by: EXSL/Ultra Labs, Inc.

Effective Date: 7/12/01

Supersedes: 4/14/98

HAZARDOUS INGREDIENTS

	CAS#	PCNT%	TWA	STEL	SARA III	PROP 65	Carcinogen
Nonylphenol Polyethylene Ethoxylate	26027-38-3	1.25	None	None	No	No	No

PHYSICAL DATA

Boiling Point: Not Avail.	pH: (Conc.) 10.5 – 11.5	Viscosity: 1-3 cps	Vapor Pressure: Not Avail.
Specific Gravity: 1.011	Evaporation Rate: Not Avail.	Solubility: Complete	Vapor Density: Not Avail.
Appearance & Odor: Clear Green Liquid, Mint Odor	Reactivity in Water: None	Melting Point: Not App.	Volatiles: Not Avail.

FIRE & EXPLOSION DATA

Health: 1... Slight	NFPA 704 Hazard Rating	Flash Point: None (Cleveland Open Cup)
Fire: 0... Will Not Burn	4 = Extreme, 3 = High, 2 = Moderate	Flammability Levels (LEL/UEL): Not Avail.
Reactivity: 0... Stable	1 = Slight, 0 = Minimal	

Extinguishing Media:..... This product is not combustible. Use water spray, foam, carbon dioxide, or dry chemical.

Fire & Explosion Hazard:...None.

Conditions to Avoid:..... Open flames, welding arcs or other high temperature sources that induce thermal decomposition, which produce toxic fumes.

REACTIVITY DATA

Materials to Avoid: Strong acids.

Stability: Stable

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

HEALTH HAZARDS

Eye Contact:..... Causes moderate to severe irritation. Prolonged and repeated contact can cause redness and tearing.

Skin Contact:..... May cause dryness with prolonged contact.

Ingestion:..... Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation:..... Spray or mist can be irritating to the upper respiratory tract.

FIRST AID

Eyes:..... Flush out immediately for at least 20 minutes with running water and seek medical attention. Washing eyes within one minute is essential to minimizing eye damage. Hold eyelids apart to ensure flushing of the entire surface.

Skin:..... Wash with water. If irritation persists, seek medical attention.

Ingestion:..... Never give anything to an unconscious person. If swallowed, induce vomiting. Give large quantities of water or milk. If vomiting occurs, keep airways clear. Seek medical attention.

Inhalation:... Move person to fresh air and away from exposure. If breathing is difficult, administer oxygen and seek medical attention. Give artificial respiration if victim is not breathing.

SPILL OR LEAK PROCEDURES

Steps to Contain:

ELIMINATE: all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leaks if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (rubber boots and gloves). Contain spills with dry earth, sand or other non-combustible material and transfer to containers. Sweep up powder spills and transfer to containers. DO NOT GET WATER INSIDE CONTAINERS.

Recommended Waste Disposal Method:

The materials resulting from the clean up may be hazardous waste and, therefore, subject to specific regulations. Package, store, transport, and dispose all clean-up materials and any contaminated equipment in accordance with all applicable federal, state, and local health environmental regulations. Shipments of waste materials are subject to manifesting requirements per applicable regulations. Ensure that all responsible federal, state, and local agencies receive proper notification of spills and disposal methods.

SPECIAL PROTECTION & PRECAUTIONS

Respiratory:..... None under normal use conditions.

Eye:..... None under normal use conditions.

Storage:..... Keep in a cool, dry place.

Clothing:..... None under normal use conditions.

Comments:... None under normal use conditions.

Handling:..... Do not stack or palletize over three high.

USER'S RESPONSIBILITY

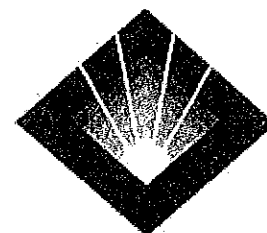
It is the user's responsibility to provide a safe workplace. He or she should consider the health hazard and safety information contained herein as a guide and take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Safety Data Sheet

Gasoline, Unleaded

NFPA: Flammability



TESORO

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Gasoline, Unleaded

Synonyms : Blend of Highly Flammable Petroleum Distillates, Regular, Mid-Grade, Premium, 888100008809

SDS Number : 888100008809 **Version** : 1.1

Product Use Description : Fuel

Company : For: Tesoro Refining & Marketing Co.
19100 Ridgewood Parkway, San Antonio, TX 78259

Tesoro Call Center : (877) 783-7676 **Chemtrec (Emergency Contact)** : (800) 424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classifications : Flammable Liquid – Category 1 or 2 depending on formulation.
Aspiration Hazard – Category 1
Carcinogenicity – Category 2
Specific Target Organ Toxicity (Repeated Exposure) – Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3
Skin Irritation – Category 2
Eye Irritation – Category 2B
Chronic Aquatic Toxicity – Category 2

Pictograms :



Signal Word :

Danger

Hazard Statements

Extremely flammable liquid and vapor.
May be fatal if swallowed and enters airways – do not siphon gasoline by mouth.
Suspected of causing blood cancer if repeated over-exposure by inhalation and/or skin contact occurs.
May cause damage to liver, kidneys and nervous system by repeated and prolonged inhalation or skin contact. Causes eye irritation. Can be absorbed through skin.
May cause drowsiness or dizziness. Extreme exposure such as intentional inhalation may cause unconsciousness, asphyxiation and death.
Repeated or prolonged skin contact can cause irritation and dermatitis.

Harmful to aquatic life.

Precautionary statements**Prevention**

- : Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames, welding and hot surfaces.
- No smoking.
- Keep container tightly closed.
- Ground and/or bond container and receiving equipment.
- Use explosion-proof electrical equipment.
- Use only non-sparking tools (if tools are used in flammable atmosphere).
- Take precautionary measures against static discharge.
- Wear gloves, eye protection and face protection (as needed to prevent skin and eye contact with liquid).
- Wash hands or liquid-contacted skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe vapors.
- Use only outdoors or in a well-ventilated area.

Response

- : In case of fire: Use dry chemical, CO₂, water spray or fire fighting foam to extinguish.
- If swallowed: Immediately call a poison center, doctor, hospital emergency room, medical clinic or 911. Do NOT induce vomiting. Rinse mouth.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If skin or eye irritation persists, get medical attention.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- Get medical attention if you feel unwell.

Storage

- : Store in a well ventilated place. Keep cool. Store locked up. Keep container tightly closed. Use only approved containers. Some containers not approved for gasoline may dissolve and release flammable gasoline liquid and vapors.

Disposal

- : Dispose of contents/containers to approved disposal site in accordance with local, regional, national, and/or international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
Gasoline, natural; Low boiling point naphtha	8006-61-9	10 - 30%
Toluene	108-88-3	10 - 30%
Xylene	1330-20-7	10 - 30%
Ethanol; ethyl alcohol	64-17-5	0-8.2%
Trimethylbenzene	25551-13-7	1 - 5%
Isopentane; 2-methylbutane	78-78-4	1 - 5%

Naphthalene	91-20-3	1 - 5%
Benzene	71-43-2	Less than 1.3%
Pentane	109-66-0	1 - 5%
Cyclohexane	110-82-7	1 - 5%
Ethylbenzene	100-41-4	1 - 5%
Butane	106-97-8	1 - 20%
Heptane [and isomers]	142-82-5	0.5 - 0.75%
N-hexane	110-54-3	0.5 - 0.75%

SECTION 4. FIRST AID MEASURES

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Skin contact	: In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Contaminated leather, particularly footwear, must be discarded. Note that contaminated clothing may be a fire hazard. Seek medical advice if symptoms persist or develop.
Eye contact	: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice if symptoms persist or develop.
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.
Notes to physician	: Symptoms: Dizziness, Discomfort, Headache, Nausea, Kidney disorders, Liver disorders. Aspiration may cause pulmonary edema and pneumonitis. Swallowing gasoline is more likely to be fatal for small children than adults, even if aspiration does not occur.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO ₂ , water spray or fire fighting foam. LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers. Keep containers and surroundings cool with water spray.
Specific hazards during fire fighting	: Extremely flammable liquid and vapor. This material is combustible/flammable and is sensitive to fire, heat, and static discharge.
Special protective equipment for fire-fighters	: Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Further information	: Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Evacuate personnel to safe areas. Ventilate the area. Remove all sources of ignition. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).
Environmental precautions	: Discharge into the environment must be avoided. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	<p>: Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled. The product should only be stored and handled in areas with intrinsically safe electrical classification.</p> <p>Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initated fire or explosion during transfer, storage or handling, include but are not limited to these examples:</p> <ol style="list-style-type: none"> (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators. (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such gasoline or naphtha). (3) Storage tank level floats must be effectively bonded. <p>For more information on precautions to prevent static-initated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents (2008).</p>
Conditions for safe storage, including incompatibilities	: Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Reports suggest that government-mandated ethanol, if present, may not be compatible with fiberglass gasoline tanks. Ethanol may dissolve fiberglass resin, causing engine damage and possibly allow leakage of explosive gasoline.

Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.

No decomposition if stored and applied as directed. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Store only in containers approved and labeled for gasoline.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

List	Components	CAS-No.	Type:	Value
OSHA	Benzene	71-43-2	TWA	1 ppm
		71-43-2	STEL	5 ppm
		71-43-2	OSHA_ACT	0.5 ppm
OSHA Z1	Xylene	1330-20-7	PEL	100 ppm 435 mg/m3
	Ethanol; Ethyl alcohol	64-17-5	PEL	1,000 ppm 1,900 mg/m3
	Naphthalene	91-20-3	PEL	10 ppm 50 mg/m3
	Cyclohexane	110-82-7	PEL	300 ppm 1,050 mg/m3
	Ethylbenzene	100-41-4	PEL	100 ppm 435 mg/m3
	Heptane [and isomers]	142-82-5	PEL	500 ppm 2,000 mg/m3
	N-hexane	110-54-3	PEL	500 ppm 1,800 mg/m3
ACGIH	Toluene	108-88-3	TWA	50 ppm
	Xylene	1330-20-7	TWA	100 ppm
		1330-20-7	STEL	150 ppm
	Ethanol; Ethyl alcohol	64-17-5	TWA	1,000 ppm
	Trimethylbenzene	25551-13-7	TWA	25 ppm
	Isopentane; 2-Methylbutane	78-78-4	TWA	600 ppm
	Naphthalene	91-20-3	TWA	10 ppm
		91-20-3	STEL	15 ppm
	Benzene	71-43-2	TWA	0.5 ppm
		71-43-2	STEL	2.5 ppm
	Pentane	109-66-0	TWA	600 ppm
	Cyclohexane	110-82-7	TWA	100 ppm
	Ethylbenzene	100-41-4	TWA	100 ppm
		100-41-4	STEL	125 ppm
	Heptane [and isomers]	142-82-5	TWA	400 ppm
		142-82-5	STEL	500 ppm

	N-hexane	110-54-3	TWA	50 ppm
Engineering measures	: Use adequate ventilation to keep gas and vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Use only intrinsically safe electrical equipment approved for use in classified areas.			
Eye protection	: Safety glasses or goggles are recommended where there is a possibility of splashing or spraying. Ensure that eyewash stations and safety showers are close to the workstation location.			
Hand protection	: Gloves constructed of nitrile or neoprene are recommended. Consult manufacturer specifications for further information.			
Skin and body protection	: If needed to prevent skin contact, chemical protective clothing such as of DuPont TyChem®, Saranex or equivalent recommended based on degree of exposure. Flame resistant clothing such as Nomex ® is recommended in areas where material is stored or handled.			
Respiratory protection	: A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection. Use a NIOSH/ MSHA-approved positive-pressure supplied-air respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.			
Work / Hygiene practices	: Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear to straw colored liquid
Odor	: Characteristic hydrocarbon-like
Odor threshold	0.5 - 1.1 ppm
pH	: Not applicable
Melting point/freezing point	About -101°C (-150°F)
Initial boiling point & range	Boiling point varies: 30 – 200°C (85 – 392°F)
Flash point	< -21°C (-5.8°F)
Evaporation rate	: Higher initially and declining as lighter components evaporate
Flammability (solid, gas)	: Flammable vapor released by liquid

Upper explosive limit	7.6 %(V)
Lower explosive limit	1.3 %(V)
Vapor pressure	345 - 1,034 hPa at 37.8 °C (100.0 °F)
Vapor density (air = 1)	Approximately 3 to 4
Relative density (water = 1)	0.8 g/mL
Solubility (in water)	Negligible
Partition coefficient (n-octanol/water)	2 – 7 as log Pow
Auto-ignition temperature	Approximately 250°C (480°F)
Decomposition temperature	Will evaporate or boil and possibly ignite before decomposition occurs.
Kinematic viscosity	0.64 to 0.88 mm ² /s range reported for gasoline
Conductivity (conductivity can be reduced by environmental factors such as a decrease in temperature)	: Hydrocarbon liquids without static dissipater additive may have conductivity below 1 picoSiemens per meter (pS/m). The highest electro-static ignition risks are associated with "ultra-low conductivities" below 5 pS/m. See Section 7 for sources of information on defining safe loading and handling procedures for low conductivity products.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Vapors may form explosive mixture with air. Hazardous polymerization does not occur.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	Can react with strong oxidizing agents, peroxides, alkaline products and strong acids. Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.
Conditions to avoid	: Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge (see Section 7).
Hazardous decomposition products	: Ignition and burning can release carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Skin contact	: Irritating to skin. Can be partially absorbed through skin.
Eye contact	: Irritating to eyes.
Ingestion	: Aspiration hazard if liquid is inhaled into lungs, particularly from vomiting after ingestion. Aspiration may result in chemical pneumonia, severe lung damage, respiratory failure and even death. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death may occur.

Inhalation and further information

Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, over excitation. Exposure to very high levels can result in unconsciousness and death.

Repeated over-exposure may cause liver and kidney injuries.
Components of the product may affect the nervous system.

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

Component:

Gasoline, natural; Low boiling point naphtha 8006-61-9

Acute oral toxicity: LD50 rat
Dose: 18.8 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 20.7 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.
Result: Moderate eye irritation

Toluene

108-88-3

Acute oral toxicity: LD50 rat
Dose: 636 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: 12,124 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 49 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation
Prolonged skin contact may defat the skin and produce dermatitis.
Eye irritation: Classification: Irritating to eyes.
Result: Mild eye irritation

Xylene

1330-20-7

Acute oral toxicity: LD50 rat
Dose: 2,840 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: ca. 4,500 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 6,350 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation

		<p>Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation</p>
Ethanol; Ethyl alcohol	64-17-5	<p><u>Acute oral toxicity</u>: LD50 rat Dose: 6,200 mg/kg</p> <p><u>Acute dermal toxicity</u>: LD50 rabbit Dose: 19,999 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 8,001 mg/l Exposure time: 4 h</p> <p><u>Skin irritation</u>: Classification: Irritating to skin. Result: Mild skin irritation Prolonged skin contact may cause skin irritation and/or dermatitis. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation Mild eye irritation</p>
Naphthalene	91-20-3	<p><u>Acute oral toxicity</u>: LD50 rat Dose: 2,001 mg/kg</p> <p><u>Acute dermal toxicity</u>: LD50 rat Dose: 2,501 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 101 mg/l Exposure time: 4 h</p> <p><u>Skin irritation</u>: Classification: Irritating to skin. Result: Mild skin irritation</p> <p><u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation</p> <p><u>Carcinogenicity</u>: N11.00422130</p>
Benzene	71-43-2	<p><u>Acute oral toxicity</u>: LD50 rat Dose: 930 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 44 mg/l Exposure time: 4 h</p>
Pentane	109-66-0	<p><u>Skin irritation</u>: Classification: Irritating to skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Risk of serious damage to eyes.</p> <p><u>Acute oral toxicity</u>: LD50 rat Dose: 2,001 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 364 mg/l Exposure time: 4 h</p> <p><u>Skin irritation</u>: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation</p>
Cyclohexane	110-82-7	<p><u>Acute dermal toxicity</u>: LD50 rabbit Dose: 2,001 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 14 mg/l Exposure time: 4 h</p>

Ethylbenzene	100-41-4	<p><u>Skin irritation:</u> Classification: Irritating to skin. Result: Skin irritation</p> <p><u>Eye irritation:</u> Classification: Irritating to eyes. Result: Mild eye irritation</p> <p><u>Acute oral toxicity:</u> LD50 rat Dose: 3,500 mg/kg</p> <p><u>Acute dermal toxicity:</u> LD50 rabbit Dose: 15,500 mg/kg</p> <p><u>Acute inhalation toxicity:</u> LC50 rat Dose: 18 mg/l Exposure time: 4 h</p> <p><u>Skin irritation:</u> Classification: Irritating to skin. Result: Mild skin irritation</p> <p><u>Eye irritation:</u> Classification: Irritating to eyes. Result: Risk of serious damage to eyes.</p>
Heptane [and isomers]	142-82-5	<p><u>Acute oral toxicity:</u> LD50 rat Dose: 15,001 mg/kg</p> <p><u>Acute inhalation toxicity:</u> LC50 rat Dose: 103 g/m3 Exposure time: 4 h</p> <p><u>Skin irritation:</u> Classification: Irritating to skin. Result: Skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.</p> <p><u>Eye irritation:</u> Classification: Irritating to eyes. Result: Mild eye irritation</p>
N-hexane	110-54-3	<p><u>Acute oral toxicity:</u> LD50 rat Dose: 25,000 mg/kg</p> <p><u>Acute dermal toxicity:</u> LD50 rabbit Dose: 2,001 mg/kg</p> <p><u>Acute inhalation toxicity:</u> LC50 rat Dose: 171.6 mg/l Exposure time: 4 h</p>
		<p><u>Skin irritation:</u> Classification: Irritating to skin. Result: Skin irritation</p> <p><u>Eye irritation:</u> Classification: Irritating to eyes. Result: Mild eye irritation</p> <p><u>Teratogenicity:</u> N11.00418960</p>
<p><u>Carcinogenicity</u></p> <p>NTP : Naphthalene (CAS-No.: 91-20-3) Benzene (CAS-No.: 71-43-2)</p> <p>IARC : Gasoline, natural; Low boiling point naphtha (CAS-No.: 8006-61-9) Naphthalene (CAS-No.: 91-20-3) Benzene (CAS-No.: 71-43-2) Ethylbenzene (CAS-No.: 100-41-4)</p> <p>OSHA : Benzene (CAS-No.: 71-43-2)</p> <p>CA Prop 65 : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene (CAS-No.: 108-88-3)</p>		

Benzene (CAS-No.: 71-43-2)

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information

: Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

Component:

Toluene

108-88-3

Toxicity to fish:

LC50

Species: Carassius auratus (goldfish)

Dose: 13 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 11.5 mg/l

Exposure time: 48 h

Toxicity to algae:

IC50

Species: Selenastrum capricornutum (green algae)

Dose: 12 mg/l

Exposure time: 72 h

Ethanol; Ethyl alcohol

64-17-5

Toxicity to fish:

LC50

Species: Leuciscus idus (Golden orfe)

Dose: 8,140 mg/l

Exposure time: 48 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 9,268 - 14,221 mg/l

Exposure time: 48 h

Isopentane; 2-Methylbutane

78-78-4

Toxicity to fish:

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 3.1 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 2.3 mg/l

Exposure time: 96 h

Naphthalene

91-20-3

Toxicity to algae:

EC50

Species:

Dose: 33 mg/l

Exposure time: 24 h

Pentane

109-66-0

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 9.74 mg/l

Exposure time: 48 h

Cyclohexane

110-82-7

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 3.78 mg/l

Exposure time: 48 h

Heptane [and isomers] 142-82-5

Toxicity to fish:

LC50

Species: Carassius auratus (goldfish)

Dose: 4 mg/l

Exposure time: 24 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 1.5 mg/l

Exposure time: 48 h

N-hexane

110-54-3

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 2.5 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 2.1 mg/l

Exposure time: 48 h

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION**CFR**

Proper shipping name : Petrol
UN-No. : 1203
Class : 3
Packing group : II

TDG

Proper shipping name : Gasoline
UN-No. : UN1203
Class : 3
Packing group : II

IATA Cargo Transport

UN UN-No. : UN1203
Description of the goods : Gasoline
Class : 3
Packaging group : II
ICAO-Labels : 3
Packing instruction (cargo aircraft) : 364
Packing instruction (cargo aircraft) : Y341

IATA Passenger Transport

UN UN-No. : UN1203
Description of the goods : Gasoline
Class : 3

Packaging group : II
ICAO-Labels : 3
Packing instruction : 353
(passenger aircraft)
Packing instruction : Y341
(passenger aircraft)

IMDG-Code

UN-No. : UN 1203
Description of the goods : Gasoline
Class : 3
Packaging group : II
IMDG-Labels : 3
EmS Number : F-E S-E
Marine pollutant : No

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid
Highly toxic by ingestion
Moderate skin irritant
Severe eye irritant
Carcinogen

TSCA Status : On TSCA Inventory

DSL Status : All components are on the Canadian DSL list.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene 108-88-3
Benzene 71-43-2

SECTION 16. OTHER INFORMATION**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Date : 08/09/2012

6, 8, 10, 12, 14, 16, 64, 68, 91, 112, 306, 1092, 1106, 1500, 1570, 1571, 1651, 1652, 1654, 1700, 1701, 1702, 1710, 1711, 1714, 1726, 1729, 1730, 1732, 1733, 1826, 1848, 1880, 1950

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1029C)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** ARSENAL GREEN SELECT
BATHROOM CLEANER**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** July 22, 2009(version 4)
Prepared by: Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)
<http://www.hillyard.com>***SECTION II – INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Alkyl polyglucoside mixture	68515-73-1 & 110615-47-9	not established	not established	N/A	---
Sodium Citrate	68-04-2	not established	not established	N/A	---
Glycolic Acid	79-14-1	not established	not established	N/A	---
*Lavender fragrance	trade secret	not established	not established	N/A	---

VOC Concentrate = 0 g/l.; VOC (concentrate) 0%; VOC (Min. dilution) 0%

***SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 208°F	Specific Gravity (H₂O = 1): 25°C = 1.06	*Density 1.06 lb/gl
Vapor Pressure (mm Hg.): 17.5	Percent Volatile by Volume (%): 86.28	
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1	
Solubility in Water: complete	Appearance and Odor: green liquid; floral odor	
pH (concentrate) = 3.5 – 4.5	pH (diluted 1:20) = 4 - 5	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**Flash point:** None to 200°F (T.C.C.) **Flammable Limits:** LEL = No data UEL = N/A**Extinguishing Media:** Carbon dioxide, Dry chemical, Foam, Water Spray.**Special Fire Fighting Procedures:** Water spray may be used to cool closed containers. Use self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** None known to manufacturer.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** None known to Hillyard**Incompatibility (Materials to Avoid):** Strong oxidizing materials**Hazardous Decomposition Products or Byproducts:** As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? no Eye? yes Skin? no Ingestion? no**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. When tested per the Federal Hazardous Substance Act method 16 CFR 1500 concentrated product was not a skin irritant; per the FHSA method 16 CFR 1500 the product was an eye irritant. Not acutely toxic (oral) to rats at 5 gm/kg. per upper limit test. Acute inhalation = 1 hour upper limit test not toxic at 21.6 mg/L.

2. None known to Hillyard.

SECTION VI – HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: None known by manufacturer.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: Eye and skin contact: Flush with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. If eye irritation persists get medical attention. If swallowed: Call a physician, hospital emergency room or poison control center immediately; induce vomiting.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use.

Other Precautions: Do not take internally

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None required.

Ventilation: Follow good engineering practices for public areas.

Local Exhaust = N/A Mechanical (General) = Recommended Special = N/A Other = N/A

Protective Gloves: N/A Eye Protection: Goggles when splashing of concentrate is a concern.

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = No IMCO = No IATA = No.

Proper shipping name for air, foreign water for highway: Cleaning compound

UN No.: not applicable for highway Limited Qty.: not applicable Hazard class: not applicable for highway

Labels required: not required for highway DOT Exception: not applicable

EPA Hazardous waste characteristics:

Ignitability = Not applicable; Corrosivity = Not applicable; Reactivity = Not applicable.

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 1/1 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1160A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL GREEN SELECT
DEGREASER CLEANERAddress: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: May 9, 2008

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>**SECTION II – INGREDIENTS/IDENTITY INFORMATION****Components**

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Alkyl polyglucoside mixture	68515-73-1 & 110615-47-9	not established	not established	N/A	---
Sodium Citrate	68-04-2	not established	not established	N/A	

VOC Concentrate = 46.8 g/l.; VOC (concentrate) 0.5%; VOC (Min. dilution) 0.04%

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208°F	Specific Gravity (H ₂ O = 1): 25°C = 1.05 & 39°C = 1.05
Vapor Pressure (mm Hg.): 17.5	Percent Volatile by Volume (%): 88.97
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: Amber-brown liquid; citrus odor
pH (concentrate) = 7.1	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None to 200°F (T.C.C.) Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Water spray, Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus, goggles and nitrile or rubber gloves with concentrate.

Unusual Fire and Explosion Hazards: None known to manufacturer.

SECTION V – PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: None known to Hillyard

Incompatibility (Materials to Avoid): Strong oxidizing materials, strong acids and strong bases.

Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.

Hazardous Polymerization: Will not occur Conditions to Avoid: None known

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? no Eye? yes Skin? no Ingestion? no

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. When tested per the Federal Hazardous Substance Act method 16 CFR 1500 concentrated product was not a skin irritant; per the FHSA method 16 CFR 1500 the concentrated product was an eye irritant. The concentrated product was not acutely toxic (oral) to rats at 5 gm/kg. per upper limit test. Acute inhalation = 1 hour upper limit test was not able to test because product foamed too much to dose by a mist.

2. None known to Hillyard.

SECTION VI – HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Overexposure may cause drowsiness, headache and uncoordination.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: Eye and skin contact: Flush with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. If eye irritation persists get medical attention. If swallowed: Call a physician, hospital emergency room or poison control center immediately; induce vomiting.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use.

Other Precautions: Do not take internally.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None required.

Ventilation: Follow good engineering practices for public areas.

Local Exhaust = N/A Mechanical (General) = Recommended Special = N/A Other = N/A

Protective Gloves: N/A Eye Protection: Goggles only where splashing of concentrate is a concern.

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = No IMCO = No IATA = No.

Proper shipping name for air, foreign water for highway: Cleaning compound

UN No.: not applicable for highway Limited Qty.: not applicable Hazard class: not applicable for highway

Labels required: not required for highway DOT Exception: not applicable

EPA Hazardous waste characteristics:

Ignitability = Not applicable; Corrosivity = Not applicable; Reactivity = Not applicable.

DISCLAIMER OF WARRANTIES

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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1/0 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1133A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** ARSENAL GREEN SELECT
GLASS CLEANER**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** December 22, 2008**Prepared by:** Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II – INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Alkyl polyglucoside mixture (nonionic surfactant)	98283-67-1	not established	not established	N/A	---

VOC = 0 g/l.; VOC Concentrate = 0 g/l.

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208°F **Specific Gravity (H₂O = 1):** 25°C = 1.01 & 39°C = 1.01
Vapor Pressure (mm Hg.): 17.5 **Percent Volatile by Volume (%):** 97.3
Vapor Density (AIR = 1): 0.6 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** blue liquid; non-objectionable odor
***pH (concentrate) =** 3.9 ***pH (diluted 1:20) =** 5 - 6

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**Flash point:** None to 200°F (T.C.C.) **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Water spray, Carbon Dioxide, Dry Chemical**Special Fire Fighting Procedures:** Wear a self-contained breathing apparatus, goggles and nitrile or rubber gloves with concentrate.**Unusual Fire and Explosion Hazards:** None known to manufacturer.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** None known to Hillyard**Incompatibility (Materials to Avoid):** Strong oxidizing materials**Hazardous Decomposition Products or Byproducts:** As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** None known**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? no Eye? No Skin? no Ingestion? no**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. When tested per the Federal Hazardous Substance Act method 16 CFR 1500 concentrated product was not a eye nor a skin irritant; per the FHSA method 16 CFR 1500. Not acutely toxic (oral) to rats at 5 gm/kg. per upper limit test. Acute inhalation = 1 hour upper limit test not toxic at 21.7 mg/L.

2. None known to Hillyard.

SECTION VI – HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%

Signs and Symptoms of Exposure: Overexposure may cause drowsiness, headache and uncoordination.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: Eye and skin contact: Flush with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. If eye irritation persists get medical attention. If swallowed: Call a physician, hospital emergency room or poison control center immediately; induce vomiting.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use.

Other Precautions: Do not take internally.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None required.

Ventilation: Follow good engineering practices for ventilation in public areas.

Local Exhaust = N/A **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: N/A **Eye Protection:** N/A

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = No IMCO = No IATA = No

Proper shipping name for air, foreign water for highway: Cleaning compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway

Labels required: not required for highway **DOT Exception:** not applicable

EPA Hazardous waste characteristics:

Ignitability = Not applicable; **Corrosivity =** Not applicable; **Reactivity =** Not applicable.

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MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-1; Flammability-4; Reactivity-0; Special-- Manufactured For: Hillyard Industries, Inc. Address: 302 N. 4 th Street Address: St. Joseph, MO 64501			HMS Rating: Health-1; Flammability-4; Reactivity-0; Personal Protection-B DOT Hazard Classification (post transition): LIMITED QUANTITY DOT Haz Classification (pretransition): Consumer Commodity ORM-D Identity (trade name as used on label): <div style="text-align: center;">GUM-GO Part #HIL0103054</div>		
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			MSDS Number: A00183 Revision: 5a Date Prepared: 04/23/07 Prepared By: ES/CH/IB Information Calls: (770)422-2071		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800
		74-98-6	No	1000	1000
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: (concentrate only) = -43.7°F		Specific Gravity (H₂O=1): Concentrate Only = 0.54			
Vapor Pressure: PSIG @ 70°F (Aerosols): 70-80		Vapor Pressure (Non-Aerosols): (mm Hg and Temperature): N/A			
Vapor Density (Air = 1): Concentrate only = greater than 1.5		Evaporation Rate (BuAc = 1): Faster			
Solubility in Water: Negligible		Water Reactive: No			
Appearance and Odor: Clear, odorless spray.					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) 44-48 inches, flashback to tip under partial actuator depression: Categorized: EXTREMELY FLAMMABLE		Auto Ignition Temperature N/E		Flammability Limits in Air by % In Volume: % LEL: 2.0 % UEL: 10.0	
FLASH POINT AND METHOD USED (non-aerosols): -156 °F SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water. Wear Self-contained breathing apparatus.				EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.	
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.					
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY [X] STABLE [] UNSTABLE Incompatibility (Mat. to avoid): Strong oxidizing agents.		HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR Conditions to Avoid: Open flame, welding arcs, heat, sparks, or any source of ignition.			
Hazardous Decomposition Products: CO, CO ₂ .					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS					
ACUTE EFFECTS:					
Inhalation: Product is an asphyxiant at very high concentrations. Excessive inhalation of vapors can be harmful and may cause headache, disorientation, rapid respiration, nausea, anesthetic effects and possible unconsciousness. Vapors are heavier than air and displace oxygen required for breathing. Abusive, excessive inhalation of vapors can result in asphyxia (death.)					
Eye Contact: May cause burns and frostbite.			Skin Contact: May cause burns and frostbite.		
Ingestion: Unlikely route of exposure. Gas under normal (usual) circumstances.					
CHRONIC EFFECTS: Unknown.					
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.					
EMERGENCY FIRST AID PROCEDURES					
Eye Contact: Flush immediately with fresh water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. Seek medical attention immediately.					
Skin Contact: Treat burned or frostbitten skin by flushing or immersing affected areas in lukewarm water. If skin is not burned, keep warm and stimulate circulation with massage. Seek medical attention immediately.					
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention. Give oxygen.					
Ingestion: Unlikely route of exposure.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH to be used in a positive pressure mode.					
Protective Gloves: Rubber gloves recommended.			Eye Protection: Safety glasses recommended.		
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.					
Other Protective Clothing & Equipment: Self-contained respirator should be available for non-routine and emergency situations.					
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
Steps To Be Taken If Material Is Spilled Or Released: Isolate hazard area and deny entry. Remove all ignition sources. Ventilate area to disperse vapors. If liquid gas has not ignited, disperse with water or by flooding.					
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use pose no disposal hazard.					
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.					
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Avoid contact with skin or eyes.					

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1/2 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (538N-80A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL HEAVY DUTY FLOOR CLEANER

Address: 302 North Fourth Street Date Prepared: January 16, 2007

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

SECTION II -- INGREDIENTS/IDENTITY INFORMATION**Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dipropylene glycol methyl ether ⁽¹⁾	34590-94-8	100 ppm	100 ppm	STEL-150 ppm	5-10
Water	7732-18-5	none	none	N/A	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N/A	---
Potassium salt of fatty acid	69669-25-6	not established	not established	N/A	---
Potassium dodecyl benzene sulfonate	27177-77-1	not established	not established	N/A	---
Tetrasodium salt of EDTA	64-02-8	not established	not established	N/A	---

(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI.

VOS = 0.5 lbs./gallon

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 206°F	Specific Gravity (H ₂ O = 1): 25°C = 1.04 & 39°C = 1.04
Vapor Pressure (mm Hg.): 17.4	Percent Volatile by Volume (%): 73.3 %
Vapor Density (AIR = 1): 1.1	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: Clear, red liquid; fresh & clean odor
pH (concentrate) = 7.8	

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray
 Special Fire Fighting Procedures: None known to manufacturer
 Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to manufacturer
 Incompatibility (Materials to Avoid): None known to manufacturer.
 Hazardous Decomposition Products or Byproducts: None known to manufacturer.
 Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? No Skin? No Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is a primary skin irritant. Eye Irritation Test (FHSA) = corrosive. Acute oral limit test showed the product was not oral toxic at 5g./kg. Since the product is corrosive it may be harmful if swallowed. Acute inhalation - 1 Hour Toxic Limit test - not toxic at nominal concentration of at least 11.1 mg/l. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. 2. None known to manufacturer.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Direct eye contact can cause burns or severe irritation; prolonged skin contact may cause irritation. Ingestion may cause irritation to mouth, throat and stomach. May cause gastric tract disorder.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as dermatitis may be aggravated by exposure to concentrated product.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. GET MEDICAL ATTENTION IMMEDIATELY. Wash clothing before reuse. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Small spills: Flush with water and pick-up with mop or wet vac. Large spills may be absorbed with floor dry material.

Waste Disposal Method: Dispose of in accordance with all federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep away from children. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewerred to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing of vapors or fine fog mist. Use only with adequate ventilation. Do not breathe fine fog mist. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes, on skin or on clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None normally required. Ventilate to keep air below TLV on Dipropylene Glycol Methyl Ether.

Ventilation: At least 10 air exchanges per hour suggested in public areas with good ventilation.

Local Exhaust = Recommended **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: If prolonged or repeated contact is possible, wear rubber or other impervious gloves.

Eye Protection: Splash goggles if risk of contact.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning Compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 0 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION *(559N-46A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** QUICK & CLEAN LIQUID ENZYME II**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** January 9, 2012 (version 3)**Prepared by:** Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Mixture of Bacterial Spores	68920-42-3	N/E	N/E	N/A	---

N/A= Not Applicable N/E= Not Established

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** 212°F**Specific Gravity (H₂O = 1):** 25°C = 0.99 ***Density =** 8.32 lbs/gl**Vapor Pressure (mm Hg.):** 17.5***Percent Volatile by Weight (%):** >99%**Vapor Density (AIR = 1):** 0.6**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** complete***Appearance and Odor:** Opaque, white liquid; floral odor***pH (concentrate) =** 7 - 8**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA****Flash point:** None to 200°F (Tag Closed Cup) **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** N/A**Special Fire Fighting Procedures:** None known to manufacturer.**Unusual Fire and Explosion Hazards:** None known to manufacturer.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** Excessive hot or cold temperatures may kill microorganisms.**Incompatibility (Materials to Avoid):** Strong acids, alkalis or disinfectants may kill these microorganisms.**Hazardous Decomposition Products or Byproducts:** None known to manufacturer.**Hazardous Polymerization:** Will not occur. **Conditions to Avoid:** None known to Hillyard.**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? no Skin? no Ingestion? no**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. According to Primary Skin Irritation Test (FHSA), product concentrate is not an irritant; prolonged exposure may produce slight irritation in sensitive individuals; Eye Irritation Test (FHSA) = not irritant. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours.

2. No data is available at this time.

Chemical listed as Carcinogen or Potential Carcinogen:**National Toxicology Program =** No **I.A.R.C. Monographs =** No **OSHA =** No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged skin contact with concentrate can cause mild irritation. Ingestion may cause nausea.

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer.

Emergency and First Aid Procedures: **Eyes/Skin:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. **Ingestion:** If ingested give person several glasses of water and induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Flush with water and pick up with mop.

Waste Disposal Method: This product may be disposed of in sanitary sewer or septic tank. Container disposal: Triple rinse or equivalent, then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewer to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Store at temperatures between 40° - 115°F to maintain microorganism population in container.

Other Precautions: Keep out of reach of children. Avoid contact with skin. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Not required for normal use.

Ventilation: Not required for normal use.

Local Exhaust = N/A **Mechanical (General) =** N/A **Special =** N/A **Other =** N/A

Protective Gloves: Impervious gloves **Eye Protection:** Splash goggles suggested

Other Protective Clothing or Equipment: Not required.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning Compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics: not listed

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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MATERIAL SAFETY DATA SHEET

EPA Reg. No. 47371-131-1658

EPA Est. No. 1658-MO-1

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 2 Flammability = 1 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1091B)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL NON-ACID RESTROOM
DISINFECTANT/CLEANERAddress: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: July 22, 2008

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Didecyl dimethyl ammonium chloride	7173-51-5	not established	N/A	N/A	2.54
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride	8001-54-5	not established	N/A	N/A	1.69
Alcohols, C ₉₋₁₁ , ethoxylated	68439-46-3	not established	N/A	N/A	---
Edtate Disodium	139-33-3	not established	N/A	N/A	---
Deionized water	7732-18-5	none	N/A	N/A	---

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 210°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.6 Percent Volatile by Volume (%): 94.7
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: clear, blue liquid; floral odor
 pH of concentrate: 7.2 - 8.2

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: >200°F (Tag Closed Cup) Flammable Limits: LEL = Not applicable UEL = Not applicable
 Extinguishing Media: Foam, alcohol foam, carbon dioxide, dry chemical, water
 Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.
 Unusual Fire and Explosion Hazards: Products of combustion are toxic.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A
 Incompatibility (Materials to Avoid): Strong oxidizing and reducing agents.
 Hazardous Decomposition Products or Byproducts: Thermal decomposition may produce toxic vapors/fumes of Hydrogen chloride, amines, and other organic materials, and oxides of carbon and nitrogen
 Hazardous Polymerization: Will not occur Conditions to Avoid: None known to Hillyard

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Eye? Yes Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. From previous experience with a 2 oz. per gallon alkaline quat, the oral LD50 (rat): 1850 mg/kg; Dermal LD50 (Rabbit): 4430 mg/kg.; Eye: Diluted product 1:64 (rabbit) essentially non-irritating; Skin irritation: Diluted product 1:64 (rabbit) Non-irritating. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. 2. None known to Hillyard.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

Signs and Symptoms of Exposure: Direct eye contact with concentrate can cause severe eye irritation; and direct skin contact will produce severe irritation, which upon prolonged contact may produce burns. Overexposure to fine fog mist of product can produce irritation of the mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions.

SECTION VI -- HEALTH HAZARD DATA continued:

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer.

Emergency and First Aid Procedures: Eyes: Flush with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician is not available, flush for additional 15 minutes and then transport victim to medical care. Skin: Wash with large amounts of running water, and soap if available, for 15 minutes; Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminated shoes before reuse. Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person. Inhalation: Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Caution. Floors may become slippery. Wear appropriate protective gear and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers of recovery or disposal. Keep spill out of sewers and open bodies of water.

Waste Disposal Method: Dispose of in compliance with all federal, state and local laws and regulations. Incineration is the preferred method.

Precautions To Be Taken In Handling And Storing: Keep away from children.

Other Precautions: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Ventilation: In processes where mists or vapors must be generated, proper ventilation must be provided in accordance with good ventilation practices. **Respiratory Protection (Specify Type):** In processes where mists or vapors may be generated, a

NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls. **Protective Gloves:**

Rubber or neoprene, when needed, to prevent skin contact with concentrate. **Eye Protection:** Wear chemical splash goggles

where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions. **Other Protective**

Clothing or Equipment: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed to prevent skin contact with concentrate. **Work / Hygienic Practices:** Wash hands thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = No; IMCO = No; IATA = No

Proper shipping name: Cleaning Compound; UN No.: Not applicable; **Limited Qty.:** Not applicable;

Hazard Class: Not applicable

Labels required: Not required **Exception:** Not applicable

EPA Hazardous waste number/code: Not listed

Hazardous waste characteristics: Ignitability = Not applicable; Corrosivity = Not applicable; Reactivity = Not applicable

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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 1 Reactivity = 0
 HMIS RATING: Health = 1/2 Flammability = 1 Reactivity = 1

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1054B)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL SUPROX

Address: 302 North Fourth Street
 St. Joseph, MO 64501

Date Prepared: December 23, 2008 (version 2)

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

*SECTION II – INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Hydrogen Peroxide	7722-84-1	1.4 mg/m ³	1.4 mg/m ³	N.A.	5 - 8%
Water	7732-18-5	none	none	N.A.	---
Complex Surfactant Blend	68991-48-0 & 68439-46-3	not established	not established	N.A.	---
Fragrance	unknown	none	none	N.A.	---

VOC (Concentrate) = 0.40%; VOC (min. dilution 1:10) = 0.04%

*SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	217°F	Specific Gravity (H ₂ O = 1): 25°C =	1.02	& 39°C =	1.02
Vapor Pressure (mm Hg.):	17.6	Percent Volatile by Volume (%):	94.6%		
Vapor Density (AIR = 1):	0.65	Evaporation Rate (ethyl ether = 1):	Slower than 1		
Solubility in Water:	complete	Appearance and Odor:	Clear, colorless liquid, Citrus odor		
*pH (concentrate) =	4-5	*pH (diluted 1:20) =	6.5 – 7.5		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: >145°F corrected (T.C.C.) Flammable Limits: LEL = Not determined UEL = Not determined
 Extinguishing Media: Do NOT use CO₂ extinguisher on this material: use only water spray or appropriate foam. Do not use organic compounds on this material.

Special Fire Fighting Procedures: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire).
 Cool with water spray.

Unusual Fire and Explosion Hazards: Release of oxygen may support combustion. Contact with incompatible materials (e.g. metals, alkalis, and strong reducing agents) may cause hazardous decomposition resulting in the release of heat, steam, and oxygen. Exposure to heat may cause hazardous decomposition. Hydrogen peroxide may spontaneously decompose above 150°C. Do not mix with kerosene or gasoline.

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Heat and flame.

Incompatibility (Materials to Avoid): Metals, Reducing agents, Alkalis, Combustible materials, Organic materials, Salt of heavy metals, Impurities.

Hazardous Decomposition Products or Byproducts: Oxygen, oxides of carbon and steam.

Hazardous Polymerization: Will not occur Conditions to Avoid: None known to Manufacturer

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Ingestion? LD50 greater than 5 g/kg

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Contact with concentrate may cause eye burns and prolonged skin contact with concentrate may cause slight skin irritation. Ingestion can cause nausea, vomiting and gastrointestinal irritation. Prolonged inhalation may cause respiratory irritation. Acute oral toxicity of concentrate per EPA method = >5000 mg./kg. Acute dermal irritation = Non -irritating. Toxicity Category IV per EPA Method. Tests show the product is not a skin sensitizer. Acute inhalation toxicity = LC50>2.13 mg./Liter.

2. None known to Hillyard Industries when used according to label directions.

SECTION VI – HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Eye symptoms may occur with delay such as conjunctiva and burns; reaction may be delayed. Prolonged skin contact with concentrate may cause irritation. Inhalation of fine mist or aerosols can lead to irritation and inflammation of the respiratory tract and cause pulmonary edema. Symptoms may occur with delay. Swallowing can lead to irritation of the mucous membranes in the mouth, esophagus and stomach.

Medical Conditions Generally Aggravated by Exposure: Open cuts and sores may be irritated by contact.

Emergency and First Aid Procedures: Eye and Skin Contact – Flush eyes and skin with plenty of water for 15 minutes; apply water gently and do not rub area. For eyes seek medical attention immediately. For skin, if irritation persists, get medical attention. If swallowed, do not induce vomiting. Seek immediate medical attention. If excess inhaled, remove to fresh air; if breathing is difficult, seek medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Small spills should be flushed with water and picked up with mop. Hydrogen peroxide quickly decomposes to oxygen and water.

Waste Disposal Method: Dispose of in accordance with state or local regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty.

Other Precautions: Do not dispose of in storm drains or streams. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not normally required with adequate ventilation.

Ventilation:

Local Exhaust = Normally adequate **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: Impervious gloves (neoprene or rubber) with concentrate. **Eye Protection:** Splash goggles with concentrate.

Other Protective Clothing or Equipment: Avoid prolonged contact. Wear clothing to prevent contact with concentrate if necessary. Eye wash, safety shower to be available when working with concentrate.

Work / Hygienic Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling; wash clothing before reuse. Completely submerge contaminated clothing or other materials in water prior to drying.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN NO.: not applicable **Limited Qty.:** not applicable **Hazard Class =** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics: Ignitability: not applicable; Corrosivity: not applicable; Reactivity: not applicable

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MATERIAL SAFETY DATA SHEET

HMIS HAZARDOUS MATERIALS

(Prepared According to 29 CFR 1910.1200)

IDENTIFICATION SYSTEM

A = Safety Glasses

F = C + Dust Mask

4 = Extreme

Health.... 2

B = A + Gloves

G = B + Respirator

3 = High

Flammability.... 0

; = B + Apron

H = F + Goggles

2 = Moderate

Reactivity.... 1

J = C + Face Shield

I = B + Respirator

1 = Slight

Protection.... C

E = B + Dust Mask

X = Ask Supervisor

0 = Insignificant

SECTION I - PRODUCT IDENTIFICATION

Product Code: 200

Supersedes date: NA

Section(s) changed: NA

Effective date: July 15, 2010

PRODUCT NAME: Active Liquid Laundry Bleach

CHEMICAL FAMILY: Laundry Product

GENERIC NAME: Laundry Bleach and Destainer

FORMULA: Proprietary Mixture

DISTRIBUTORS NAME: Area Distributors, Inc.

DISTRIBUTORS ADDRESS: 218 Vermont St.

INFORMATION PHONE NUMBER: 217-223-3600

Quincy, IL 62301

EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: Chemtrec 800-424-9300

PROPER SHIPPING DESCRIPTION: > 1 Gal: Hypochlorite solutions, 8, UN1791, III

LABEL: Corrosive

1 Gal: Hypochlorite solutions, Ltd Qty, 8, UN1791, III

LABEL: None

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME

CAS No.

WT%

OSHA PEL

ACGIH TLV

OTHER

Sodium Hypochlorite

7681-52-9

<15

NE

NE

The information & recommendations set forth herein are presented in good faith & believed to be current & reliable. The manufacturer makes no representation as to the completeness or accuracy thereof & supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will the manufacturer be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which it refers.

SECTION III - PHYSICAL/CHEMICAL DATA

Boiling Point (EF): 220

Specific Gravity: 1.20

Vapor Pressure (mm Hg): 50

Lbs/Gal Density: 10.0

Vapor Density (Air=1): NA

pH Concentrate: 13

Evaporation Rate: (Water=1): GT 1.00

pH Use Dilution: 10

Solubility in Water: Complete

Physical Description: Clear Colorless Thin Liquid

Chlorine Bleach Odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): None LIMITS: LEL: NA UEL: NA

EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid exposure to fumes or vapors.

UNUSUAL FIRE & EXPLOSION HAZARD: Containers of this material can explode as oxygen is liberated under high heat or fire conditions.

SECTION V - REACTIVITY DATA

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibility (Materials to Avoid): Heavy metals, Ammonia.

Hazardous Decomposition Products: HOCL, Chlorine, HCL, NACL, Sodium Chlorate, Oxygen.

SECTION VI - STORAGE & HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. DANGER.

Avoid all contact. Store upright in original closed container.

Other Precautions: Do not get in eyes, on skin or on clothing. Avoid entry into sewers or natural waters. Remove & wash contaminated clothing before reuse.

SECTION VII - HEALTH HAZARDS AND FIRST AID

Carcinogenicity:

NTP?

IARC Monographs?

OSHA REGULATED?

NE

NE

NE

YES

EFFECTS OF OVEREXPOSURE:

EMERGENCY FIRST AID PROCEDURES:

SKIN: Irritation

SKIN: Wash with soap & water for 15 minutes. See physician if irritation persists.

EYES: Severe Irritation

EYES: Flush with flowing water for 15 minutes & see physician.

INHALATION: Irritation

INHALATION: Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.

INGESTION: Extremely corrosive

INGESTION: Give milk or water to dilute material; DO NOT induce vomiting; Avoid alcohol; CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH approved respirator for severe vapor or mist.

VENTILATION: Local exhaust. Avoid breathing vapor or spray.

PROTECTIVE GLOVES: Impervious rubber, gloves.

EYE PROTECTION: Splash proof chemical goggles, and full faceshield when diluting product with water.

OTHER PROTECTIVE EQUIPMENT: Apron. Eye wash facilities. Safety Shower.

WORK/HYGIENIC PRACTICES: Practice good personal hygiene. Wash after handling.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Mop up & flush neutralized material to sewer with plenty of water. Neutralize with dilute sodium bisulfite.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable Federal, State & Local regulations.

SECTION X - ADDITIONAL FEDERAL REGULATIONS

SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: Sodium Hypochlorite

For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

NE - Not Established NA - Not Applicable GT - Greater Than

MATERIAL SAFETY DATA SHEET

ID: GP-6184

Pacific Garden® Liquid Soap - Antibacterial

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pacific Garden® Liquid Soap - Antibacterial
Product Number: (See product list found in section 16)
Product Use: Antimicrobial hand soap.
Manufacturer/Supplier: Georgia-Pacific Consumer Products LLC
133 Peachtree Street, N.E., Atlanta, GA 30303
Phone Number: (866) 435-5647 (Technical Information)
(404) 652-5119 (MSDS Request)
Emergency Phone: CHEMTREC (800) 424-9300
Date of Preparation: January 9, 2008

Section 2: HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****CAUTION**

Contact with product may cause irritation to eyes and skin. For external use only. Keep out of children's reach.

Likely Routes of Exposure: Eye contact, skin contact.

Potential Health Effects:

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production.
Skin: Not expected to be a primary skin irritant. Prolonged and/or repeated skin contact with this product may cause irritation.
Ingestion: Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested.
Inhalation: Not applicable under normal conditions of use.

Medical Conditions Aggravated By Exposure: Because of its irritating properties, product may aggravate preexisting eye, and skin conditions.

Target Organs: Eyes and skin.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Water	7732-18-5	30 - 60
Ammonium lauryl sulfate	2235-54-3	3 - 7
Sodium laureth sulfate	9004-82-4	1 - 5
Cocamidopropylbetaine	61789-40-0	1 - 5
Glycerin	56-81-5	1 - 5

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- Skin Contact:** If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
- Inhalation:** Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.
- Ingestion:** Seek medical attention or call poison control.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by OSHA/WHMIS criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Small amounts of nitrogen oxide, sulfur dioxide, carbon monoxide, carbon dioxide, and hydrocarbons may be released.

Explosion Data:

Sensitivity to Mechanical Impact: Not applicable.

Sensitivity to Static Discharge: Not applicable.

Protection of Firefighters: Firefighters should wear full protective clothing including self contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary personnel.

Environmental Precautions: If large quantities enter a waterway, advise local authorities.

Methods for Containment: Contain and/or absorb spill, then place in a suitable container.

Methods for Clean-Up: Soak into absorbent material. Spills of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Do not swallow. Wear gloves and safety glasses or goggles if handling large quantities. For external use only.

Storage:

Keep out of the reach of children. Keep container tightly closed. Store in a cool place.

MATERIAL SAFETY DATA SHEET

ID: GP-6184

Pacific Garden® Liquid Soap - Antibacterial

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	CAS #	Exposure Limits	
		OSHA-PEL	ACGIH-TLV
Water	7732-18-5	Not available.	Not available.
Ammonium lauryl sulfate	2235-54-3	Not available.	Not available.
Sodium laureth sulfate	9004-82-4	Not available.	Not available.
Cocamidopropylbetaine	61789-40-0	Not available.	Not available.
Glycerin	56-81-5	15 mg/m ³	10 mg/m ³

Engineering Controls: Ventilation is not normally required.

Personal Protective Equipment:

Eye/Face Protection: None necessary under normal conditions of use. Wear safety glasses or goggles if handling large quantities.

Skin Protection: None necessary under normal conditions of use. Wear gloves if handling large quantities.

Respiratory Protection: Not normally needed.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Various.
Odor:	None / Various
Odor Threshold:	Not available.
Physical State:	Liquid.
pH:	5.5 - 7
Viscosity:	Not available.
Freezing Point:	< 0 °C (~ 32 °F)
Boiling Point:	> 100 °C (~ 212 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	0.9 - 1.1
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Incompatible materials.

Incompatible Materials: Oxidizers. Acids. Bases.

Hazardous Decomposition Products: Small amounts of nitrogen oxide, sulfur dioxide, carbon monoxide, carbon dioxide, and hydrocarbons may be released. s of sulfur dioxide may be released.

Section 11: TOXICOLOGY INFORMATION**EFFECTS OF ACUTE EXPOSURE**

Contact with this product may cause eye irritation.

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Water	Not available.	Not available.
Ammonium lauryl sulfate	Not available.	Not available.
Sodium laureth sulphate	1600 mg/kg, rat	Not available.
Cocamidopropylbetaine	4900 mg/kg, rat	Not available.
Glycerin	12600 mg/kg, rat	> 570 mg/m ³ , 1 hr, rat

EFFECTS OF CHRONIC EXPOSURE

Contact with this product may cause skin irritation.

Target Organs: Not available.

Chronic Effects: Not hazardous by OSHA/WHMIS criteria.

Carcinogenicity: Not hazardous by OSHA/WHMIS criteria.

Mutagenicity; Reproductive Effects; Teratogenicity; Embryotoxicity; Respiratory Sensitization; Skin

Sensitization: Not hazardous by OSHA/WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

Glycerin (56-81-5)**Test & Species**

96 Hr LC₅₀ rainbow trout

50 mg/L

24 Hr LC₅₀ goldfish

> 5000 mg/L

Conditions**Cocamidopropylbetaine (61789-40-0)****Test & Species**

40 Hr EC₅₀ water flea

6.5 mg/L

Section 13: DISPOSAL CONSIDERATIONS**Disposal Instructions:**

This product, if discarded as supplied, is not considered a hazardous waste under Federal Waste Regulations 40 CFR 261. If processing, use, or contamination alters the material, the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definition of hazardous waste.

Section 14: TRANSPORTATION INFORMATION**DOT Classification**

Not regulated

TDG Classification

Not regulated

Section 15: REGULATORY INFORMATION**Federal Regulations**

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. This product is regulated under Canada's Food & Drug Act.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200). This product is regulated under the US Federal Food, Drug, and Cosmetic Act.

HMIS - Hazardous Materials Identification System

Health - 0

Flammability - 0

Physical Hazard - 0

NFPA - National Fire Protection Association:

Health - 0

Fire - 0

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Section 16: OTHER INFORMATION**Product List:**

Pacific Garden® Liquid Soap – Antibacterial

Marine

Sandalwood

Citrus

Lavender

Jasmine

Product Number

901H5

901H3

901H4, 48115

901H2, 48220

901H1

Disclaimer:

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries will not be liable for claims that the information and data are inaccurate, incomplete or otherwise misleading.

Supersedes: 04/04/2007

Prepared by: Georgia-Pacific LLC
(404) 652-5119 (MSDS Request)



Date: 15 November 2004
Supersedes: 3 March 2003

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: PURELL® INSTANT HAND SANITIZER

Company Name & Address: GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311

Emergency Phone: 1-800-424-9300 CHEMTREC

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	62
Isopropanol	67-63-0	400 ppm	400 ppm	<5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; CN 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 1 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Not applicable.

Ingestion: May cause upset stomach, nausea (Abnormal entry route).

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.

Skin Contact: Not applicable.

Inhalation: Not applicable.

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

5. FIRE FIGHTING MEASURES:

NFPA: Health 0 Fire 3 Reactivity 0
Flashpoint °F/°C (PMCC method): 86.36°F/30.2°C
Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.
Special Fire Fighting Procedures: None known.
Extinguishing Media: X Water Fog X Alcohol Foam X CO₂ X Dry Chemical Other

6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: None required under normal conditions.
Skin Protection: None required under normal conditions.
Respiratory Protection: None required under normal conditions.
Ventilation: None required under normal conditions.
Protective Equipment or Clothing: None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor Clear liquid, citrus fragrance
pH (undiluted): 4.5 – 9.5
VOC, %: 65

10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

11. TOXICOLOGICAL INFORMATION:

~~No acute or chronic toxic effects expected when used according to directions.~~

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by Ground and Rail, this product typically is shipped as Consumer Commodity ORM-D. When transported by air, this product is typically shipped as Consumer Commodity or Alcohols N.O.S. depending on package size. When transported by ocean, this product is typically shipped as Limited Quantities. Refer to current regulations for exact requirements.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.



MATERIAL SAFETY DATA SHEET

Product Name: **REVOLUTION**

SECTION I – PRODUCT INFORMATION

Product #: REVOLUTION #100
Champion Chemical Co.
8319 S. Greenleaf Ave.
Whittier, CA 90602
Tech Information: 800-621-7868

Type of Product: Floor Finish and Sealer
Formula: PROPRIETARY MIXTURE
Date prepared: 1-03-07
Leak/spill: 800-424-9300 (24hrs)
Emergency Medical: 800-451-8346 (24 hrs)

HAZARD RATING: 0-Minimal 1-Slight
2-Moderate 3-High 4-Extreme
HEALTH: 1 FIRE: 0
REACTIVITY: 0 SPECIAL: 0

SECTION II – INGREDIENTS

Chemical Name
Diethylene Glycol Monoethyl Ether

Carcinogen	WT	CAS #	TWA/mg/m ³	STEL mg/m ³	Ceiling mg/m ³
No	5-6%	111-90-0	NE	NE	NE

Legend: NE= Not Established NA= Not Applicable

SECTION III – PHYSICAL DATA

Boiling Point: APPROX 212° F
Evaporation Rate: <1
Solid by Weight: 20-25%

Vapor Density: UNKNOWN
Specific Gravity (H₂O=1): 1.00
Physical State: Liquid

Reactivity in Water: NONE
Vapor Pressure: UNKNOWN
Appearance and Fragrance: Translucent emulsion, Slight Ammonia Scent
Solubility in Water: COMPLETE
pH: 8.6-8.8

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: NONE
Special Fire-Fighting Procedures: Wear NIOSH/MSHA self contained breathing apparatus and protective clothing.
Extinguishing Media: Water spray, Carbon dioxide, Dry chemical, Foam. Cool fire-exposed containers with water spray.

Flammable Limits: NA

Unusual Fire Hazards: Products of combustion are toxic.

SECTION V – HEALTH AND FIRST AID

Threshold limit value:
NE

OSHA PEL:
NA

ACGIH TLV:
NA

CARCINOGEN:
OSHA/NTP/IARC-NO

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

EYES: May cause eye irritation. Avoid contact with eyes.

SKIN: Wash with soap and water. If irritation occurs, get medical attention.

INHALATION: N/A

INGESTION: see below

EMERGENCY & FIRST AID PROCEDURES:

KEEP OUT OF REACH OF CHILDREN

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES; CONSULT A PHYSICIAN

SKIN CONTACT: WASH WITH WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR.

INGESTION: GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: IN CASE OF IRRITATION; MOVE PERSON TO FRESH AIR

SECTION VI – REACTIVITY DATA

Stability: STABLE

Materials to Avoid: DO NOT MIX WITH OTHER CHEMICALS

Hazardous Decomposition: NONE

Hazardous Polymerization: DO NOT MIX WITH OTHER CHEMICALS

SECTION VII – ENVIRONMENTAL PROTECTION SPILL OR LEAK PROCEDURES

Small Spills: Wet mop and rinse with water. Flush with water through sanitary sewer. Large Spills: Dike area. Pump into suitable tank for rework or disposal in accordance with applicable regulatory ordinances. Waste Disposal Method: In accordance with Local, State and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

Eye Protection: NOT NORMALLY NEEDED

Respiratory Protection: NOT NORMALLY NEEDED

Skin Protection: NOT NORMALLY NEEDED

Ventilation: GENERAL Other Protection: NOT NORMALLY NEEDED.

SECTION IX – SPECIAL PRECAUTIONS

Hygienic Practices in Handling & Storage: DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN A COOL PLACE.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. DO NOT GET IN EYES. DO NOT REPACKAGE IN UNMARKED CONTAINERS. KEEP CLOSURE ON CONTAINERS WHEN NOT IN USE.

Disposal of Empty Containers: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive or fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

Material Safety Data Sheet

ALL PURPOSE CLEANER

1. Product and company identification

Product name	ALL PURPOSE CLEANER	Validation date	3/27/2009.
Material uses	Concentrated all purpose cleaner	Print date	3/27/2009.
In case of emergency	800-535-5053	Responsible name	Regulatory Affairs Department
Supplier	Sac Val Janitorial Sales and Service, Inc 2421 Del Monte Street W. Sacramento, CA 95691 Phone: 916-923-1476		

Hazardous Material Information System (U.S.A.)

Health	HAZARD RATING
Flammability	4 = Extreme
Physical hazards	3 = High
Personal protection	2 = Moderate
	1 = Slight
	0 = Insignificant

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

Emergency overview NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

Potential acute health effects due to overexposure

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion No known significant effects or critical hazards.
Skin No known significant effects or critical hazards.
Eyes No known significant effects or critical hazards.

Potential chronic health effects due to overexposure

Carcinogenicity No known significant effects or critical hazards.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Developmental effects No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.

See toxicological information (section 8)

3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Inhalation Move exposed person to fresh air. Get medical attention immediately.
Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.
Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media
Suitable Use an extinguishing agent suitable for the surrounding fire.
Special exposure hazards Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Control and preventive measures

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Personal protection

Respiratory None required. However, use of adequate ventilation is good industrial practice.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Methods for cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Waste disposal Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Blue	Melting/freezing point	0°C (32°F)
Odor	Citrus	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	0.0%	Vapor density	<1 [Air = 1]
pH	9 to 10	Weight per Gallon:	8.47 lbs/gal
1% pH:	8.2	Specific Gravity:	1.01 gm/ml

8. Toxicological information

Acute toxicity

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-	-	-

PG* : Packing group



Material Safety Data Sheet
Go Clean Go Green

ITEM NUMBER: **0553 SAC8400**

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4/6/2009

PRODUCT NAME: SAC GREEN APPLE FOAMING HAND SOAP 4X1 CS
PRODUCT CODE: FLPSFPGASAC-GHS-1

===== SECTION I - MANUFACTURER IDENTIFICATION =====
DISTRIBUTOR'S NAME : SAC-VAL Janitorial Sales & Service, Inc.
ADDRESS : 2421 Del Monte Street
West Sacramento, CA 95691

EMERGENCY PHONE : 800-228-5635 x059 DATE REVISED : 4/6/2009
INFORMATION PHONE : 800-600-8989
NAME OF PREPARER : REGULATORY DEPARTMENT

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
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*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

This product may contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====
BOILING POINT: 212 DEG F SPECIFIC GRAVITY (H2O=1): 1.01
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: Complete pH: 6.0 - 8.5
APPEARANCE AND ODOR: Liquid, non-viscous, faint sweet odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====
FLASH POINT: NONE METHOD USED: COC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG
SPECIAL FIREFIGHTING PROCEDURES

Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None

===== SECTION V - REACTIVITY DATA =====
STABILITY: STABLE
CONDITIONS TO AVOID
None

INCOMPATIBILITY (MATERIALS TO AVOID)
None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
May liberate carbon monoxide, carbon dioxide, and oxides of sulfur.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
Inhalation risks for this product are considered to be minimal.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ES - Liquid and mists will irritate and may burn the eyes. SKIN - No irritation is likely after brief contact but may be irritating after prolonged contact.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

M A T E R I A L S A F E T Y D A T A S H E E T

SAC GREEN APPLE FOAMING HAND SOAP 4X1 CS

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Skin absorption risks unknown.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Swallowing large quantities may cause nausea and vomiting.

HEALTH HAZARDS (ACUTE AND CHRONIC)

CHRONIC - No specific information available.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

The components of this product are not considered to be carcinogens by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

None reported.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION - Remove to fresh air. Give artificial respiration if not breathing. EYES - Flush immediately with large amounts of water for at least 15 minutes holding eyelids open. Get medical attention. SKIN - Immediately wash skin with lots of soap and water. Remove contaminated clothing & shoes. Get medical attention. INGESTION - If conscious, drink 2 glasses of water. Consult a physician or poison control center immediately. Treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

For small spills dilute with water, mop or wipe up and contain. For large spills, contain by diking with absorbent material. Keep material out of sewers, storm drains, surface waters, and soil.

WASTE DISPOSAL METHOD

Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Dispose of contaminated product and materials used in clean up in a manner approved for this material and the contaminant. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a dry, well ventilated place away from incompatible materials. Keep container tightly closed when not in use. Store at temperatures above the solutions freezing point to remain liquid. Do not use pressure to empty container.

~~OTHER PRECAUTIONS~~

Empty containers usually still hold residues of material and vapors. These must be considered hazardous and disposed of in accordance with proper handling procedures prescribed for hazardous chemicals. When mixing with water, always add this product to water and stir.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

In the absence of adequate ventilation an approved respirator may be required.

VENTILATION

Be sure to provide adequate ventilation in all working areas at all time. In general, health problems could result from repeated and prolonged exposure to chemical vapors.

PROTECTIVE GLOVES

None required with normal use.

EYE PROTECTION

None required under normal use conditions. Eye protection required if used overhead or misting or spraying.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Where gross eye and skin contact may occur use and wear appropriate clothing, rubber boots with pants on the outside, and rubber gloves.

WORK/HYGIENIC PRACTICES

Standard hygienic practices must be observed when handling all chemicals.

===== SECTION IX - DISCLAIMER =====

Information contained herein is furnished without warranty of any kind. Employees should use this information only as a

M A T E R I A L S A F E T Y D A T A S H E E T

SAC GREEN APPLE FOAMING HAND SOAP 4X1 CS

Page: 3

4/6/2009

supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and for the safety and health of employees.



MATERIAL SAFETY DATA SHEET

Product Name: SUPER-STRIP

Product #: SUPER-STRIP #270

Champion Chemical Co.

8319 S. Greenleaf Ave.

Whittier, CA 90602

Tech Information: 800-621-7868

SECTION I - PRODUCT INFORMATION

Type of Product: Floor Finish Remover

Formula: PROPRIETARY MIXTURE

Date prepared: 1-03-07

Leak/spill: 800-424-9300 (24hrs)

Emergency Medical: 800-451-8346 (24 hrs)

HAZARD RATING: 0-Minimal 1-Slight

2-Moderate 3-High 4-Extreme

HEALTH: 3 FIRE: 0

REACTIVITY: 0 SPECIAL: 0

SECTION II - INGREDIENTS

Chemical Name	Carcinogen	WT	CAS #	TWA/mg/m ³	STEL mg/m ³	Ceiling mg/m ³
Potassium Hydroxide	No	7-8%	1310-58-3	NE	NE	2
*2-Butoxy Ethanol	No	9-12%	111-76-2	NE	NE	NE
Benzene Sulfonic Acid Derivative	No	1-5%	701-75-1	NE	NE	NE
Anionic Surfactant	No	1-2%	Trade Secret	NE	NE	NE
Sodium Metasilicate	No	2-4%	06834-92-0	NE	NE	NE

Legend: NE= Not Established NA= Not Applicable

SECTION III - PHYSICAL DATA

Boiling Point: APPROX 210° F

Vapor Density: UNKNOWN

Reactivity in Water: NONE

Solubility in Water: COMPLETE

Evaporation Rate: <1

Specific Gravity (H₂O=1): 1.05

Vapor Pressure: UNKNOWN

pH: 12-14

Solid by Weight: 10-15%

Physical State: Liquid

Appearance and Fragrance: Yellow, Mild Scent

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200 °F

Flamable Limits: NE

Unusual Fire Hazards: Products of combustion are toxic.

Special Fire-Fighting Procedures: Wear NIOSH/MSHA self contained breathing apparatus and protective clothing.

Extinguishing Media: Water spray, Carbon dioxide, Dry chemical, Foam. Cool fire-exposed containers with water spray.

SECTION V - HEALTH AND FIRST AID

Threshold limit value:

OSHA PEL:

ACGIH TLV:

CARCINOGEN:

NE

NA

NA

OSHA/NTP/IARC-NO

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

EYES: May cause eye irritation. Avoid contact with eyes.

SKIN: Wash with soap and water. If irritation occurs, get medical attention.

INHALATION: N/A

INGESTION: see below

EMERGENCY & FIRST AID PROCEDURES:

KEEP OUT OF REACH OF CHILDREN

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES; CONSULT A PHYSICIAN

SKIN CONTACT: WASH WITH WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR.

INGESTION: GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE

ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: IN CASE OF IRRITATION; MOVE PERSON TO FRESH AIR

SECTION VI - REACTIVITY DATA

Stability: STABLE

Materials to Avoid: DO NOT MIX WITH OTHER CHEMICALS

Hazardous Decomposition: NONE

Hazardous Polymerization: DO NOT MIX WITH OTHER CHEMICALS

SECTION VII - ENVIRONMENTAL PROTECTION SPILL OR LEAK PROCEDURES

Small Spills: Wet mop and rinse with water. Flush with water through sanitary sewer. Large Spills: Dike area. Pump into suitable tank for rework or disposal in accordance with applicable regulatory ordinances. Waste Disposal Method: In accordance with Local, State and Federal Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eye Protection: NOT NORMALLY NEEDED

Respiratory Protection: NOT NORMALLY NEEDED

Skin Protection: NOT NORMALLY NEEDED

Ventilation: GENERAL

Other Protection: NOT NORMALLY NEEDED.

SECTION IX - SPECIAL PRECAUTIONS

Hygienic Practices in Handling & Storage: DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN A COOL PLACE.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. DO NOT GET IN EYES. DO NOT REPACKAGE IN UNMARKED CONTAINERS. KEEP CLOSURE ON CONTAINERS WHEN NOT IN USE.

Disposal of Empty Containers: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive or fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.



29 CFR 1910.1200

OMB No. 1218-0072

Identity # 170700, 170394

Name 764 LEMON QUAT DISINFECTANT CLEANER

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way Emergency Phone (Chem-Tel) 1-(800) 255-3924

City - San Diego State - CA 92123-1036 Phone - (800) 995-4466

Date Prepared- 1/13/2010

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16)	68424-85-1	N/A	N/A	2.170%
Di-(C8-10)-Alkyl Dimethyl Ammonium Chloride	68424-95-3	N/A	N/A	1.627%
Dioctyldimethylammonium Chloride	5538-94-3	N/A	N/A	0.814%
Didecyl Dimethyl Ammonium Chloride	7173-51-5	NONE	NONE	0.814%

Note: EPA# 1839-169

VOC Content- <10 g/L

Section 3 - Physical/Chemical Characteristics

Specific Gravity- 1.007

Boiling Point- >212 F

Melting Point - Not Tested

Vapor Pressure - Not Tested

Evaporation Rate - Not Tested

Vapor Density - Not Tested

Solubility In Water- 100%

Appearance and Odor- YELLOW COLOR LIQUID WITH CITRUS ODOR.

Section 4 - Fire and Explosion Hazard Data

Flash Point- >212 F

Flammable Limits - Not Tested

LEL- Not Tested

UEL- Not Tested

pH- 6 TO 8

DOT# None

NFPA Hazard Rating - H F R S HMIS Hazard Rating - H F R

(0- Least, 4- Extreme) 3 1 0 0 3 1 0

Extinguishing Media- CO2, DRY FOAM, WATER

Special Fire Fighting Procedures Wear full fire-fighting turn-out gear including NIOSH-approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive mode.

Unusual Fire and Explosion Hazards None

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- Anionic Materials, Strong Oxidizing Agents

Hazardous Decomposition or Byproducts- CO, CO2

Hazardous Polymerization- None

Conditions to Avoid- None

Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

Signs and symptoms of overexposure:

Eyes - Burning Sensation.

Skin- Slight Irritation

Ingestion- Burning Irritation, corrosive, pains, and harmful if swallowed.

Inhalation- Slight Irritation

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

Emergency and First Aid Procedures

Eyes - Flush with water for 15 minutes. If irritation persists, call physician.

Skin- Wash Off With Soap & Water, If Irritation Persists, Call Physician

Ingestion- Drink Large Amounts of Water, Call Physician

Inhalation- Get Person to Fresh Air If Unconscious, Call Physician

Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134, is required.

Ventilation	Local Exhaust - If Available	Special - None
	Mechanical - If Available	Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements None

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion



Material Safety Data Sheet
OSHA's Hazard Communication Standard
U.S. Department of Labor

29 CFR 1910.1200

OMB No. 1218-0072

Identity # 320021; 320022; 320024; 320025

Name BALANCE NEUTRAL-pH, HARD-SURFACE CLEANER AND ODOR COUNTERACT

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way

Emergency Phone (Chem-Tel) 1-(800) 255-3924

City - San Diego State - CA 92123-1036

Phone - (800) 995-4466

Date Prepared- 10/4/2010

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
None	NONE	NONE	NONE	
Sodium Citrate F.C.C	6132-04-3	N/A	N/A	
Alcohols, Ethoxylated	Proprietary	N/A	N/A	
Quaternary Ammonium Chloride	68424-85-1	NONE	NONE	
Dimethyl, Methyl (Polyethylene Oxide) Siloxane	68937-54-2	N/A	N/A	
Fragrance	Proprietary	N/A	N/A	
FD&C Yellow #5	1934-21-0	15 mg/m3	10 mg/m3	
Water	7732-18-5	N/A	N/A	

Note: N/A

VOC Content- <10 g/L

Section 3 - Physical/Chemical Characteristics

Specific Gravity- 1.010

Boiling Point- 210 F

Melting Point - Not Tested

Vapor Pressure - Not Tested

Evaporation Rate - Not Tested

Vapor Density - Not Tested

Solubility in Water- 100%

Appearance and Odor- LIGHT YELLOW COLOR LIQUID WITH LEMON ODOR.

Section 4 - Fire and Explosion Hazard Data

Flash Point- None

Flammable Limits - Not Tested

LEL- Not Tested

UEL- Not Tested

pH- 6 - 8

DOT# NONE

NFPA Hazard Rating -	H	F	R	S	HMIS Hazard Rating -	H	F	R
(0- Least, 4- Extreme)	0	0	0	0		0	0	0

Extinguishing Media- CO2, Dry Foam, Water

Special Fire Fighting Procedures None

Unusual Fire and Explosion Hazards None

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- Strong Oxidizers, Strong Acidic Materials

Hazardous Decomposition or Byproducts- None

Hazardous Polymerization- WILL NOT OCCUR

Conditions to Avoid- None

Page 1 of 2

Section 6 - Health Hazard Data

320021; 320022; 320024; 320026

Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

Signs and symptoms of overexposure:

Eyes - Burning Sensation

Skin- Not Expected to be a Problem

Ingestion- May cause nausea, irritant, headache, abdominal pains

Inhalation- Not Expected to be a Problem

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

Emergency and First Aid Procedures

Eyes - Flush with water for 15 minutes. If irritation persists, call physician.

Skin- Wash Off With Soap & Water

Ingestion- Drink Large Amounts of Water, Call Physician

Inhalation- Not Expected to be a Problem

Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134, is required.

Ventilation Local Exhaust - If Available Special - None
 Mechanical - If Available Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion

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Identity # 180414

Name DUST MOP TREATMENT

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way Emergency Phone (Chem-Tel) 1-(800) 255-3924

City - San Diego State - CA 92123-1036 Phone - (800) 995-4466

Date Prepared- 4/6/2005

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
Aliphatic Hydrocarbon	8052413	100PPM	100PPM	

Note:

VOC Content- 53.3 g/L

Section 3 - Physical/Chemical Characteristics

Boiling Point- >212 F

Vapor Pressure - Not Tested

Vapor Density - Not Tested

pH- Not Applicable

Solubility In Water- Insoluble

Specific Gravity- 0.820

Appearance and Odor- YELLOWISH SOLVENT/BANANA ODOR

Melting Point - Not Tested

Evaporation Rate - Not Tested

Section 4 - Fire and Explosion Hazard Data

Flash Point- 195 F

Flammable Limits - Not Tested

LEL- Not Tested

UEL- Not Tested

DOT# COMBUSTIBLE

NFPA Hazard Rating -	H	F	R	S	HMIS Hazard Rating -	H	F	R
(0- Least, 4- Extreme)	1	1	0	0		1	1	0

Extinguishing Media- CO2, DRY FOAM

Special Fire Fighting Procedures- NONE

Unusual Fire and Explosion Hazards- NONE

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- WATER, STRONG OXIDIZERS

Hazardous Decomposition or Byproducts- CO, CO2

Hazardous Polymerization- NONE

Conditions to Avoid- None

Section 6 - Health Hazard Data

Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

180414

Signs and symptoms of over exposure:

Eyes - Burning Sensation

Skin- Irritant

Ingestion-Toxic, Do Not Induce Vomitting, Call Physician

Inhalation- Dizziness, Headaches, Irritation

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

Emergency and First Aid Procedures

Eyes - Flush With Water For 15 Minutes. If Irritation Persists, Call Physician.

Skin- Wash Off With Soap & Water, If Irritation Persists, Call Physician

Ingestion- Do Not Induce Vomitting, Call Physician

Inhalation- Get Person to Fresh Air If Unconscious, Call Physician

Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134, is required.

Ventilation	Local Exhaust - If Available	Special - None
	Mechanical - If Available	Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion



Material Safety Data Sheet
OSHA's Hazard Communication Standard
U.S. Department of Labor

29 CFR 1910.1200

OMB No. 1218-0072

Identity # 410071; 410072; 410074; 410075

Name MEAN GREEN ALL-PURPOSE DEGREASER

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way

City - San Diego State - CA 92123-1036

Emergency Phone (Chem-Tel) 1-(800) 255-3924

Phone - (800) 995-4466

Date Prepared- 11/14/2001

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
2-Butoxy Ethanol *	111762	25PPM	25PPM	
2-Amino-Ethanol	141435	3PPM	3PPM	

Note: * A SARA 313 Chemical

VOC Content- 22 g/L

Section 3 - Physical/Chemical Characteristics

Boiling Point- >212 F

Vapor Pressure - Not Tested

Vapor Density - Not Tested

pH- 11.5-13.0

Solubility In Water- 100%

Specific Gravity- 1.01

Appearance and Odor- TURQUIOSE/CITRUS ODOR

Melting Point - Not Tested

Evaporation Rate - Not Tested

Section 4 - Fire and Explosion Hazard Data

Flash Point- None

Flammable Limits - Not Tested

LEL- Not Tested

UEL- Not Tested

DOT# NONE

NFPA Hazard Rating -	H	F	R	S	HMIS Hazard Rating -	H	F	R
(0- Least, 4- Extreme)	1	0	0	0		1	0	0

Extinguishing Media- CO2, DRY FOAM

Special Fire Fighting Procedures NONE

Unusual Fire and Explosion Hazards- NONE

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- Strong Oxidizers, Acidic Materials, Aluminum

Hazardous Decomposition or Byproducts- CO, CO2

Hazardous Polymerization- NONE

Conditions to Avoid- None

Section 6 - Health Hazard Data

Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

410071; 410072; 410074; 410075

Signs and symptoms of over exposure:

Eyes - Burning Sensation

Skin- Irritant

Ingestion-Nausea, Irritation

Inhalation- Dizziness, Headaches, Irritation

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

Emergency and First Aid Procedures

Eyes - Flush With Water For 15 Minutes. If Irritation Persists, Call Physician.

Skin- Wash Off With Soap & Water, If Irritation Persists, Call Physician

Ingestion- Drink Large Amounts of Water, Call Physician

Inhalation- Get Person to Fresh Air If Unconscious, Call Physician

Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134, is required.

Ventilation	Local Exhaust - If Available	Special - None
	Mechanical - If Available	Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion

MATERIAL SAFETY DATA SHEET

Rite-Away II Vandalism Mark Remover

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rite-Away II Vandalism Mark Remover
Product Number: A00178
Product Use: Cleaner.
Manufacturer/Supplier: Waxie Sanitary Supply
9353 Waxie Way
San Diego, CA 92193-1036
Phone Number: 1-800-995-4466
D.O.T. Emergency Phone: 1-800-255-3924 CHEM TEL
Date of Preparation: November 12, 2007 **Revision #:** 1.0

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: See Section 15

DANGER

EXTREMELY FLAMMABLE. HARMFUL BY INHALATION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.
Inhalation: Harmful by inhalation. May cause respiratory tract irritation. May cause asphyxiation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin. Vapours may cause drowsiness and dizziness.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Acetone	67-64-1	30 - 60
Toluene	108-88-3	10 - 30
Isobutane	75-28-5	5 - 10
Ethylene glycol monobutyl ether	111-76-2	5 - 10
Methyl ethyl ketone	78-93-3	6 - 10
Propane	74-98-6	3 - 7

MATERIAL SAFETY DATA SHEET

Rite-Away II Vandalism Mark Remover

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

MATERIAL SAFETY DATA SHEET

Rite-Away II Vandalism Mark Remover

Section 7: HANDLING AND STORAGE

Handling:

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49°C / 120°F.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Acetone	1000 ppm	500 ppm
Toluene	200 ppm	50 ppm
Isobutane	Not available.	Not available.
Ethylene glycol monobutyl ether	50 ppm	20 ppm
Methyl ethyl ketone	200 ppm	200 ppm
Propane	1000 ppm	1000 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

HMIS: See Section 15

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Colorless.
Odour:	Aromatic.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Not applicable.
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.

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Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	0.810 (Concentrate only)
Solubility in Water:	Partial.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	49.0% (US federal/CARB/OTC/LADCO)

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers. Acids.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD ₅₀ (oral)	LC ₅₀
Acetone	5800 mg/kg, rat	Not available.
Toluene	636 mg/kg, rat	8000 mg/m ³ , rat
Isobutane	Not available.	Not available.
Ethylene glycol monobutyl ether	470 mg/kg, rat	450 ppm 4 hrs, rat
Methyl ethyl ketone	2737 mg/kg, rat	23500 mg/m ³ 8hrs, rat
Propane	Not available.	Not available.

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause skin irritation. Handling can cause dry skin.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: Harmful by inhalation. May cause respiratory tract irritation. May cause asphyxiation. This product may be aspirated into the lungs and cause chemical pneumonitis. Vapours may cause drowsiness and dizziness.

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EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: (Effects due to excessive exposure to the raw materials of this mixture) May cause cardiac abnormalities, kidney and/or lung damage. Lab animals have experienced anemia, kidney, liver, lung and blood damage due to Ethylene glycol monobutyl ether.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Acetone	Not listed.
Toluene	Not listed.
Isobutane	Not listed.
Ethylene glycol monobutyl ether	Not listed.
Methyl ethyl ketone	Not listed.
Propane	Not listed.

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

ORM-D

TDG Classification

Limited Quantity

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Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Acetone	Not listed.	Not listed.	5,000	Not listed.
Toluene	Not listed.	Not listed.	1,000	313
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene glycol monobutyl ether	Not listed.	Not listed.	Not listed.	Yes.
Methyl ethyl ketone	Not listed.	Not listed.	5,000	313
Propane	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product contains a chemical known to the state of California to cause cancer. This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Acetone	DSL	Yes.
Toluene	DSL	Yes.
Isobutane	DSL	Yes.
Ethylene glycol monobutyl ether	DSL	Yes.
Methyl ethyl ketone	DSL	Yes.
Propane	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 2 Flammability - 3 Physical Hazard - 0 PPE - B

NFPA - National Fire Protection Association:

Health - 2 Fire - 3 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class A - Compressed Gas
Class B5 - Flammable Aerosol
Class D2A - Teratogenicity and Embryotoxicity
Class D2B - Skin/Eye Irritant

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WHMIS Hazard Symbols:



SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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