

MATERIAL SAFETY DATA SHEET

HALO Floor Cleaner

Page 1 of 5

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: HALO Floor Cleaner

Product Number: 2289

Product Use: Floor Cleaner

Manufacturer/Supplier: Enviroform Industries

PO Box 6274

Lakewood, CA 90714

USA

Phone Number: 877-694-6330

Emergency Phone: 800-424-9300 CHEMTREC

Date of Preparation: Mar 13, 2012

Date of Previous Version: Jan 16, 2009

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING:

MAY CAUSE TRANSIENT IRRITATION. DAMAGE IS UNLIKELY.

Potential Health Effects: See Section 11 for more information.

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

Eye: May irritate eyes. Corneal damage is unlikely.

Skin: Prolonged exposure may irritate sensitive skin.

Ingestion: Low toxicity. May cause stomach distress, nausea or vomiting when ingested in large amounts.

Inhalation: May irritate respiratory passages.

Chronic Effects: None known.

Signs and Symptoms: May cause burning, redness, tearing or irritation of the eye. Redness, itching, or burning of the skin may occur. Nausea, vomiting and diarrhea may occur if ingested. Occasional mild effects to the nose and throat may occur.

Medical Conditions Aggravated By Exposure: Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies.

Target Organs: Not available.

This product is a NOT "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 when used as directed and diluted appropriately.

Potential Environmental Effects: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s) CAS # UN # Wt. %

Dipropylene Glycol monomethyl Ether 34590-94-98 <5%

Sodium Hydroxide 1310-73-2 <2%

Section 4: FIRST AID MEASURES

Eye Contact: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin Contact: After contact with skin, wash immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, get medical attention.

Inhalation: If inhaled, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

Ingestion: If swallowed, call a Poison Control Center or doctor immediately. DO NOT induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If swallowed, administer 1-2 glasses of water to dilute product (only if the person is conscious).

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

MATERIAL SAFETY DATA SHEET

HALO Floor Cleaner

Page 2 of 5

Note to Physicians: Symptoms may be delayed.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Dry chemical, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Hazardous Combustion Products: Oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: In case of fire and/or explosion do not breathe fumes. Firefighters should wear full protective clothing including self contained breathing apparatus.

Specific Hazards Arising from the Chemical: Not available.

Conditions to Avoid: Not available.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate area. Keep unnecessary personnel away.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material.

Methods for Clean-Up: Sweep up or gather material and place in appropriate container for disposal.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Avoid contact with skin. Do not swallow. Do not breathe vapor. Use only in a well-ventilated area. Handle and open container with care. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Storage:

Keep out of the reach of children. Store in a closed container away from incompatible materials. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep away from food, drink and animal feed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Exposure Limits

Ingredient(s) OSHA-PEL ACGIH-TLV

Dipropylene Glycol monomethyl Ether 34590-94-98 100ppm PEL 100ppm TLV

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields.

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 in accordance with good industrial hygiene and safety practice.

MATERIAL SAFETY DATA SHEET

HALO Floor Cleaner

Page 3 of 5

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thin liquid.

Color: Light to Dark Orange (customer preference).

Odor: Citrus scent.

Odor Threshold: Not available.

Physical State: Liquid.

pH: 13.50 +/- 0.5

Viscosity: Not available.

Freezing Point: Not available.

Boiling Point: 212 °F.

Flash Point: > 212 °F (> 100 °C)

Evaporation Rate: Negligible.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Negligible.

Vapor Density: >1 (Air = 1)

Specific Gravity: 1.010 +/-0.005

Solubility in Water: Complete.

Coefficient of Water/Oil Distribution: Not available.

Auto-ignition Temperature: Not available.

VOC content: 45gm/L

Molecular Weight: Not applicable.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions of Instability: None.

Conditions of Reactivity: No dangerous reaction known under conditions of normal use.

Incompatible Materials: Strong Oxidizers.

Hazardous Decomposition Products: Oxides of carbon.

Possibility of Hazardous Reactions: Will not occur.

Spontaneous Polymerization: Will not occur.

Conditions to Avoid: Not available.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient(s) IDLH LD₅₀ (oral) LC₅₀

Sodium hydroxide: irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe.

All other ingredients are tested >2000mg/kg, Oral, Rat

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient(s) Chemical Listed as Carcinogen or Potential Carcinogen *

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

MATERIAL SAFETY DATA SHEET

HALO Floor Cleaner

Page 4 of 5

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not 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: This product is not expected to produce significant eco-toxicity upon exposure to aquatic organisms and aquatic systems. Ingredients are expected to be at least 90% decomposed within 28 days.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

Section 14: TRANSPORTATION INFORMATION

United States (DOT)

Not regulated.

Canada (TDG)

Not regulated.

Mexico (NOM-004-SCT2-1994)

Not regulated.

Section 15: REGULATORY INFORMATION

Federal Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

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.

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III

Ingredient(s) Section 302

(EHS) TPQ (lbs.)

Section 304

EHS RQ (lbs.)

CERCLA

RQ (lbs.)

Section 313

None.

State Regulations

California Proposition 65:

This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient(s) Canada

DSL/NDSL

USA

TSCA

None

MATERIAL SAFETY DATA SHEET

HALO Floor Cleaner

Page 5 of 5

NFPA - National Fire Protection Association:

Health - 1 Fire - 0 Reactivity - 0

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

WHMIS Classification(s):

Class D2B - Skin/Eye Irritant

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:

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving will make their own determination as to its suitability for their purposes prior to use. In no event will Enviroform Industries be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, 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 this information refers.

Expiry Date: Mar 13, 2015

Version #: 3

Prepared by: Enviroform Industries

Phone: (877) 694-6330

Web: www.EnviroformIndustries.com