SAFETY DATA SHEET

Citrus Degreaser

Date Prepared: May 23, 2016
Revision Date: May 23, 2016

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:	Hesco, Inc. 6633 N. Milwaukee Niles, IL 60714 Phone: (800) 822-7463
24 Hour Emergency Telephone Number:	CHEMTREC (800)424-9300
SDS #:	SA-242
Product Use:	Non-butyl cleaner/degreaser

2. HAZARDSIDENTIFICATION

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EMERGENCY OVERVIEW:

Color: Orange
Physical State: Liquid
Appearance: Clear
Odor: Citrus aroma

Signal Word: **WARNING**
GHS Classifications: Acute Toxicity; Category 4
Severe Eye Damage/Irritation; Category 1
Skin Corrosion/Irritation; Category 2
Skin Sensitization; Category 1

MAJOR HEALTH HAZARDS: SEVERE IRRITATION TO RESPIRATORY TRACT, EYES, SKIN AND DIGESTIVE TRACT . MAY CAUSE PERMANENT EYE DAMAGE. HARMFUL IF SWALLOWED.

PHYSICAL HAZARDS: MAY BE CORROSIVE TO METALS.

PRECAUTIONARY STATEMENTS: Keep only in original container. Wear protective gloves, protective clothing, eye, and face protection. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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POTENTIAL HEALTHEFFECTS:

Inhalation: Inhalation of mists may cause irritation of the upper respiratory tract with sore throat, coughing and shortness of breath. Upon contact with moist mucous membranes, sodium metasilicate is highly alkaline and may cause corrosive damage. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. In some cases, pulmonary edema and/or pneumonia may develop, either immediately or more often within 72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. Physical findings may include moist rales, low blood pressure and high pulse pressure.

Skin contact: Direct contact with wet material or by moist skin may cause severe irritation, pain, and possibly burns.

Eye contact: Dust or mist may cause severe irritation, pain and corneal burns (possibly leading to blindness). The full extent of the injury may not be immediately apparent.

Ingestion: May cause immediate pain and severe burns of the esophagus and gastrointestinal tract with vomiting, nausea, and diarrhea. Edema of the epiglottis and shock may occur.

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	%	CAS Number
Tetrasodium ethylenediamine tetraacetate	1 - 5	64-02-8
Linear alcohol ethoxylate	5 – 10	68439-46-3
Quaternary ammonium chloride	1 – 5	70758-47-9
d-Limonene	1 – 5	5989-27-5

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation and/or Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use media appropriate for surrounding fire.

Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Flash point: Not flammable

6. ACCIDENTAL RELEASE MEASURES

Methods and Material for Containment and Clean-up:

Absorb spilled liquid with polypads or other suitable absorbent materials. If necessary, neutralize using suitable buffering material, (acid with soda ash or base phosphoric acid), and test area with litmus paper to confirm neutralization. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 – Disposal Considerations).

7. HANDLING AND STORAGE

Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

Handling Procedures: Avoid creation of mist. Avoid breathing mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): None

ENGINEERING CONTROLS: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. When wet mixing, wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem® or similar chemical protective suit. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®.

Hand Protection: Wear appropriate chemical resistant gloves.

Protective Material Types: Butyl rubber, Natural rubber, Neoprene, Nitrile, Tychem®, Tyvek®

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Clear
Color:	Orange
Odor:	Citrus aroma
Vapor Density (air=1):	Not determined
Boiling Point/Range:	212ºF
Melting Point/Range:	Not determined
Vapor Pressure:	Not determined
Specific Gravity(water=1):	1.03 ±0.005
Density:	8.5734 lbs./gal.
Water Solubility:	Complete
pH:	12.2 ±0.5
VOC:	Not determined
Flash point:	Not flammable

10. STABILITY AND REACTIVITY

Reactivity/ Stability: Stable at normal temperatures and pressures. Prolonged contact with incompatible metals may produce flammable hydrogengas.

Conditions to Avoid: Contact with acids will cause evolution of heat. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Incompatibilities/ Materials to Avoid: Acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

Hazardous Decomposition Products: Alkali vapors in a fire.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation	No adverse effects due to inhalation are expected.
Skin Contact	No adverse effects due to skin contact are expected.
Eye Contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.
Symptoms related to the Physical, chemical and Toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

ACUTE TOXICITY DATA:

Component	LD50 Oral:	LC50 Inhalation:	LD50 Dermal:
Linear alcohol ethoxylate	>5,050 mg/kg (Rat)	>1600 mg/m^3, 4 h (rat)	>2000 mg/kg (rat)
d-Limonene	4,400 mg/kg (rat)	---------	>5 g/kg (Rabbit)

Skin Corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not a respiratory or skin sensitizer.
Germ cell mutagenicity	No data available to indicate product or any components are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen.
Reproductive toxicity	Not expected to cause reproductive or developmental effects.
Specific target organ toxicity-Single exposure	Not classified.
Specific target organ toxicity-Repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

d-Limonene:	LC50 (pimephales promelas); 0.619-0.796 mg/l, 96 h
Tetrasodium EDTA:	LC50 (pimephales promelas); >100 mg/l, 96 h LC50 (lepomis macrochirus); 157-2,070 mg/l, 96 h
Linear Alcohol Ethoxylate	EC50 (algae); 1.4 mg/l, 96 h LC50 (oncorhynchus mykiss); 5 – 7 mg/l, 96 h EC50 (crustacea); 2.5 mg/l, 48 h

FATE AND TRANSPORT:

BIODEGRADATION: This material is mainly inorganic and not subject to biodegradation. The organic portions are considered biodegradable.

BIOCONCENTRATION: This material is not expected to bioconcentrate in organisms.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Reuse or recycle if possible. Dispose in accordance with all applicable regulations. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D002 (Corrosive).

14. TRANSPORT INFORMATION

DOT/IMDG/IATA Hazard Classification: Non-Hazardous, notregulated
Hazardous: N
Shipping Name: LIQUID CLEANING COMPOUNDS
Freight Class: 55

15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORYSTATUS:
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

EPCRA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):
Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119): Not regulated

NATIONAL INVENTORYSTATUS

- **U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt
- **TSCA 12(b):** This product is not subject to export notification
- **Canadian Chemical Inventory:** All components of this product are listed on either the DSL or the NDSL

STATE REGULATIONS

California Proposition 65: This product may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

Components	
California Proposition 65 Cancer WARNING:	Not Listed
California Proposition 65 CRT List -Male reproductive toxin:	Not Listed
California Proposition 65 CRT List - Female reproductive toxin:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Not Listed
New Jersey Right to Know Hazardous Substance List	Not Listed
New Jersey Special Health Hazards Substance List	Not Listed
New Jersey - Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Not Listed
Pennsylvania Right to Know Special Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed
Rhode Island Right to Know Hazardous Substance List	Not Listed
Sodium Metasilicate	
California Proposition 65 Cancer WARNING:	Not Listed
California Proposition 65 CRT List -Male reproductive toxin:	Not Listed
California Proposition 65 CRT List - Female reproductive toxin:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Not Listed
New Jersey Right to Know Hazardous Substance List	Not Listed
New Jersey Special Health Hazards Substance List	Not Listed
New Jersey - Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Not Listed
Pennsylvania Right to Know Special Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed
Rhode Island Right to Know Hazardous Substance List	Not Listed

CANADIAN REGULATIONS

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

WHMIS Classifications of Substances:

- E - Corrosive material

16. OTHER INFORMATION

HMIS: (SCALE 0-4) (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

Health:	2	**Flammability:**	0	**Reactivity:**	0

Personal Protection: B

NFPA 704 - Hazard Identification Ratings (SCALE 0-4)

Health:	2	**Flammability:**	0	**Reactivity:**	0

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet