

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Label Name** Inferno Degreaser  
**Other means of identification**  
**UPC Code(s)** Not applicable  
**Product code** 2697-4903, 2698-4904, 2699-4905  
**Synonyms** Esteam Inferno Degreaser, High Alkaline Cleaner / Prespray

### Recommended use of the chemical and restrictions on use

**Recommended Use** Carpet cleaning solution  
**Uses advised against** Follow label instructions. Not recommended for any use except intended use.

### Supplier's details

<b>Supplier Address</b>	<b>Manufacturer Address</b>
Esteam Cleaning Systems 1-3680 Odyssey Drive Mississauga, ON L5M 0Y9 Canada	AramSCO Inc. 4282 South 590 West Salt Lake City, UT 84123 USA

### Emergency telephone number

**Company Phone Number** 1-800-767-6933  
**Company Emergency Phone Number** United States: 1-800-535-5053 (INFOTRAC – 24 hours, 7 days a week)  
 International: 1-352-323-3500 (INFOTRAC – 24 hours, 7 days a week)  
**Emergency telephone** Poison Control 1-800-222-1222 (24 hour)

## 2. HAZARDS IDENTIFICATION

### Classification

**OSHA Regulatory Status**  
 This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

**Danger**

**Hazard Statements**  
 Harmful if swallowed  
 Causes severe skin burns and eye damage



<b>Appearance</b> clear liquid	<b>Physical state</b> liquid	<b>Odor</b> characteristic
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**Precautionary Statements - Prevention**

Wash face, hands, and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not eat, drink, or smoke when using this product

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Disposal**

Keep out of reach of children  
 Store locked up

**Hazards not otherwise classified (HNOC)****Other information**

- May be harmful if swallowed
- May be harmful in contact with skin
- Avoid breathing dust/fume/gas/mist/vapors/spray
- May cause irritation of respiratory tract

General Hazards

Keep out of reach of children

Please see Section 11. Toxicological Information for further information

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade Secret
Alcohols, C9-11, ethoxylated	68439-46-3	5 - 10	*
Sodium Silicate Pentahydrate	10213-79-3	1 - 5	*
Diethylene glycol monobutyl ether	112-34-5	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES****First aid measures for different exposure routes**

**General advice** Immediate medical attention is required.

**Eye contact** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

**Skin contact** Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Toxic - Inhalation** Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or Poison Control Center immediately.

**Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes, and clothing.

**Most important symptoms/effects, acute and delayed**

**Main Symptoms** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Hazardous Combustion Products** No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Advice for emergency responders** For personal protection see section 8.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Packaging material** Keep product in packaging product is initially sold in.

**Incompatible products** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-

NIOSH IDLH: *Immediately Dangerous to Life or Health*

**Appropriate engineering controls**

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Tightly fitting safety goggles. Face shield

**Skin and body protection** No special protective equipment required.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	characteristic
<b>Appearance</b>	clear liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	No information available		

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
pH	12.5	
Melting point	No information available	
Boiling point/boiling range	> 100 °C / > 212 °F	
Flash Point	> 94 °C / > 201 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	1.038	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Viscosity, dynamic	No information available	
Explosive properties	No information available	

Oxidizing Properties No information available

**Other information**

Softening point No information available  
 Molecular weight No information available  
 VOC Content (%) No information available  
 Density VALUE No information available  
 Bulk Density VALUE No information available

## 10. STABILITY AND REACTIVITY

**Reactivity****Chemical stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

None under normal processing

**Hazardous Polymerization** None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight

**Incompatible Materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents

**Hazardous Decomposition Products**

None known based on information supplied

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Toxic - Inhalation** Avoid breathing vapors or mists. Harmful by inhalation. May cause irritation of respiratory tract. Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** Avoid contact with eyes. Risk of serious damage to eyes. May cause burns. May cause irreversible damage to eyes.

**Skin contact** Irritating to skin. Avoid contact with skin. Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking. May cause burns.

**Ingestion** Do not taste or swallow. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol monobutyl ether 112-34-5	= 5660 mg/kg (rat)	= 2700 mg/kg (rabbit)	-
Alcohols, C9-11, Ethoxylated 68439-46-3	= 1400 mg/kg (rat) = 1378 mg/kg (rat)	> 2 g/kg (rabbit)	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.  
**Eye damage/irritation** No information available.

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

Chemical Name	ACGIH	IARC	NTP
None	-	-	-

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

X - Present

*IARC: (International Agency for Research on Cancer)*

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.  
**Developmental Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic toxicity** Avoid repeated exposure. May cause adverse liver effects.  
**Target Organ Effects** Blood, Central nervous system, Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 1500 mg/kg  
**ATEmix (dermal)** > 5000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

3.5577% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Diethylene glycol monobutyl ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
None	-

**14. TRANSPORT INFORMATION**

**DOT**

**UN/ID No** UN3266  
**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (Contains: Disodium trioxosilicate)

**Hazard class** 8  
**Packing Group** III  
**Reportable Quantity (RQ)** Sodium hydroxide: RQ lb.= 1000  
**Special Provisions** IB3, T7, TP1, TP28  
**Emergency Response Guide Number** 154

**IMDG**

**UN/ID No** UN3266  
**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (Contains: Disodium trioxosilicate)  
**Hazard class** 8  
**Packing Group** III  
**EmS No.** F-A, S-B  
**Special Provisions** Check regulations for limited quantity exceptions

**IATA**

**UN/ID No** Do not ship by air unless within allowed limits  
**Proper shipping name**  
**Hazard class**  
**Packing Group**  
**Special Provisions**

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	SARA 313 - Threshold Values %
Diethylene glycol monobutyl ether - 112-34-5	1.0

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes  
**Chronic Health Hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product can expose you to chemicals including Acetaldehyde, 1,4-Dioxane and Oxirane,2-methyl, which are known to the State of California to cause cancer, and Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol monobutyl ether 112-34-5	X		X

**U.S. EPA Label information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health hazard 3	Flammability 1	Instability 0	Physical and chemical hazards -
<b><u>HMIS</u></b>	Health hazard 3	Flammability 1	Physical Hazard 0	Personal protection X

**Prepared By** Aramsco  
Environmental Health & Safety

**Revision Date** 13 Feb 2023

**Revision Note**  
13 Feb 2023 No information available

**References** Raw ingredient SDSs

**Disclaimer**

The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Bridgewater LLC to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Bridgewater LLC assumes no responsibility for injury to the recipient of third persons, or for any damage to any property resulting from misuse of the product.

**End of Material Safety Data Sheet**