

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier**

Product Label Name Liquid Defoamer
Other means of identification
UPC Code(s) Not applicable
Product code 2656-3458
Synonyms Esteam Liquid Defoamer

Recommended use of the chemical and restrictions on use

Recommended Use Liquid defoamer.
Uses advised against Follow label instructions. Not recommended for any use except intended use.

Supplier's details**Supplier Address**

Esteam Cleaning Systems
1-3680 Odyssey Drive
Mississauga, ON L5M 0Y9
Canada

Manufacturer Address

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)

| | |
|-----------------------------------|------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |

GHS Label elements, including precautionary statements**Emergency Overview****Warning****Hazard Statements**

Causes skin irritation
Causes serious eye irritation

**Appearance** Viscous Liquid**Physical state** Liquid**Odor** Alight Amine

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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

- Causes mild skin irritation

General Hazards

Keep out of reach of children

Please see Section 11. Toxicological Information for further information

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade Secret |
|-----------------|----------|----------|--------------|
| Triethanolamine | 102-71-6 | >1% | * |

*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 | If symptoms persist, call a physician. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| Skin contact | Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Toxic - Inhalation | Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do NOT induce vomiting. |
| Protection of First-aiders | Use personal protective equipment. |

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

No information available.

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. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid dust formation. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist.

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.

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

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------|-----------|----------|------------|
| None | - | - | - |

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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 shields.

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 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

| | | | |
|-----------------------|--------------------------|-----------------------|--------------------------|
| Physical state | Liquid | Odor | Alight Amine |
| Appearance | Viscous Liquid | Odor threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------|--------------------------------|
| pH | 7.1 | |
| Melting point | No information available | |
| Boiling point/boiling range | 100°C / 212°F | |
| Flash Point | No information available | |
| 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 | 17.5 | |
| Vapor density | 0.672 | Air = 1.0 |
| Specific Gravity | 1.000 | |
| 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 | 700 cps | |
| 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

None known based on information supplied

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. May cause irritation of respiratory tract. |
| Eye contact | Avoid contact with eyes. Irritating to eyes. |
| Skin contact | Avoid contact with skin. Irritating to skin. Prolonged contact may cause redness and irritation. |
| Ingestion | Do not taste or swallow. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause stomach discomfort. May cause irritation. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|--------------------|--------------------|-----------------|
| Triethanolamine 102-71-6 | = 4190 mg/kg (rat) | > 2000 mg/kg (rat) | - |

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 | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| 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. |
| Target Organ Effects | No information available. |
| 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) | > 5000 mg/kg |
| ATEmix (dermal) | > 5000 mg/kg |

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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 local, regional, national and international laws and regulations.

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

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.

SARA 311/312 Hazard Categories

| | |
|------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |

