

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TOMAMINE ACID FOAMER

Other means of identification

Recommended restrictions

Recommended use: Surfactant

Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
Nutrition & Care
PO Box 34628
Richmond, VA 23234
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : us-productsafety-cs@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements Not a hazardous substance or mixture.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Substances

Chemical Identity	CAS number	Content in percent (%) [*]
Quaternary ammonium compounds, (hydrogenated tallow alkyl)bis(hydroxyethyl)methyl, ethoxylated, chlorides	68187-69-9	100%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information:	Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.
Inhalation:	If breathing is irregular or stopped, administer artificial respiration. Move to fresh air.
Skin Contact:	Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Wash off immediately with soap and plenty of water.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Rinse immediately with plenty of water for at least 15 minutes.
Ingestion:	Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.
Personal Protection for First-aid Responders:	Use personal protective equipment., Wear self-contained breathing apparatus for firefighting if necessary.

Most important symptoms/effects, acute and delayed

Symptoms:	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Alcohol resistant foam. Carbon Dioxide. Dry chemical. Dry sand. Limestone powder
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Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Accidental release measures: Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

Methods and material for containment and cleaning up: Call Emergency Response number for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Environmental Precautions: Construct a dike to prevent spreading. Construct a dike to prevent spreading.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Safe handling advice: Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Use personal protective equipment.

Contact avoidance measures: No data available.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

Storage

Safe storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Recommended storage temperature: <70°C.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Appropriate Engineering Controls

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Individual protection measures, such as personal protective equipment

Eyeface protection: Chemical resistant goggles must be worn.

Skin Protection
Hand Protection:

Additional Information: Neoprene gloves, Impervious gloves
 Additional Information: 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 and Body Protection:

Long sleeve shirts and trousers without cuffs. No specific recommendations.

Respiratory Protection:

Wear appropriate respirator when ventilation is inadequate. Not required for properly ventilated areas.

Hygiene measures:

Provide readily accessible eye wash stations and safety showers.

9. Physical and chemical properties
Appearance
Physical state:

liquid

Form:

liquid

Color:

Amber

Odor:

Mild

Odor Threshold:

No data available.

pH:

No data available.

Freezing point:

1 °C

Boiling Point:

> 104 °C

Flash Point:

100 °C

Evaporation Rate:

No data available.

Flammability (solid, gas):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

No data available.

Vapor density (air=1):

No data available.

Density:

No data available.

Relative density:

1.08

Solubility(ies)
Solubility in Water:

partly soluble

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available.

Self Ignition Temperature:

No data available.

Decomposition Temperature:

No data available.

Kinematic viscosity:

No data available.

Dynamic viscosity:

No data available.

Other information
Explosive properties:

No data available.

Oxidizing properties:

No data available.

Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible Materials:	Oxidizing agents. Alkali and alkaline earth metals - powdered aluminum, zinc, etc. Reacts with water to form corrosive acids.
Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): 2,150 mg/kg
Dermal Product:	No data is available on the product itself.
Inhalation Product:	No data is available on the product itself.

Repeated dose toxicity Product:	No data available.
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Skin Corrosion/Irritation**Product:** Moderate skin irritation**Serious Eye Damage/Eye Irritation****Product:** Severe eye irritation**Respiratory or Skin Sensitization****Product:** No data available.**Carcinogenicity****Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:****US. National Toxicology Program (NTP) Report on Carcinogens:****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):****Germ Cell Mutagenicity****In vitro****Product:** No data available.**In vivo****Product:** No data available.**Reproductive toxicity****Product:** No data is available on the product itself.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Aspiration Hazard****Product:** No data available.**Other effects:** No data available.**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data is available on the product itself.

Chronic hazards to the aquatic environment:
Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data is available on the product itself.

Persistence and Degradability
Biodegradation
Product: Not biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil:

No data available.

Components:

 Quaternary ammonium compounds,
 (hydrogenated tallow alkyl)bis(hydroxyethyl)met
 hyl, ethoxylated, chlorides

No data available.

Other adverse effects:

Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations
Disposal methods:

Contact supplier if guidance is required.

Contaminated Packaging:

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

14. Transport information
Domestic regulation
49 CFR

Not regulated as a dangerous good

Remarks : Not regulated for transport within the U.S.A.

International Regulations
IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Quaternary ammonium compounds, (hydrogenated tallow alkyl)bis(hydroxyethyl)methyl, ethoxylated, chlorides)

Class : 9

Packing group : III

Labels : 9MI

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Quaternary ammonium compounds, (hydrogenated tallow alkyl)bis(hydroxyethyl)methyl, ethoxylated, chlorides)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Quaternary ammonium compounds, (hydrogenated tallow alkyl)bis(hydroxyethyl)methyl, ethoxylated, chlorides Ethylene oxide	Irritant Skin sensitization Reproductive toxicity Mutagenicity Eye irritation Acute toxicity Respiratory tract irritation. Cancer Skin irritation Flammability Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Chloromethane	100 lbs.
Ethylene oxide	10 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Not classified

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Ethylene oxide	10 lbs.	1000 lbs.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances
SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Ethylene oxide	500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Chloromethane	10000 lbs
Ethylene oxide	10000 lbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations
US. California Proposition 65


WARNING: This product can expose you to chemicals including, Ethylene oxide, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Chloromethane, which is [are] known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List**Chemical Identity**

Ethylene oxide

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory:	Included on Inventory.
Canada DSL Inventory List:	Included on Inventory.

16. Other information, including date of preparation or last revision**HMIS Hazard ID**

Health		2
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 06/04/2019

Version #: 1.1

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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