

## 1. Product and Company Identification

Material name **TEA**  
 Revision date 02-08-2020  
 Chemical class Triethanolamine

## 2. Hazards Identification

Emergency overview Moderately irritating to the eyes. Moderate skin irritation May cause irritation of respiratory tract.

Potential health effects

Eyes Moderately irritating to the eyes.

Skin Moderate skin irritation.

Inhalation Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

## 3. Composition / Information on Ingredients

Components	Percent
Triethanolamine	100%

## 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without advice from poison control center. Symptoms may be delayed.

Notes to physician

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

Flammability of the Product : May be combustible at high temperature.

Auto-Ignition Temperature: Not available

Flash Points: CLOSED CUP:	179.44°C (355°F). OPEN CUP: 190.5°C (374.9°F) (Cleveland).
Autoignition Temperature	662 °C / 1223.6 °F
Flammable Limits	: Not available.
Products of Combustion:	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances:	Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

## 6. Accidental Release Measures

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment and Clean Up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal
Methods for cleaning up	Ventilate the contaminated area. Extinguish all flames in the vicinity. Wear appropriate protective equipment and clothing during clean-up. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Do not allow material to contaminate ground water system. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

Handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.
Storage	Keep away from heat, sparks and open flame. Store in

original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. Exposure Controls / Personal Protection

Engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Personal protective equipment

General

Use personal protective equipment as required.

Eye / face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical & Chemical Properties

Physical state and appearance: Liquid.

Liquid (Clear viscous liquid.)

Odor:

Ammoniacal. (Slight.)

Taste:

Not available.

Molecular Weight:

149.19 g/mole

Color

Colorless to light yellow.

pH (1% soln/water):

10 [Basic.]

Boiling Point:

335°C (635°F)

Melting Point:

21.5°C (70.7°F)

## 10. Stability & Reactivity

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 11. Toxicological Information

Product

Test Results

Acute Dermal LD50 Rabbit: > 2000 mg/kg

Acute Oral LD50 Rat: > 2000 mg/kg

Sensitization

Acute effects

Carcinogenicity

Skin corrosion/irritation

Mutagenicity

Reproductive effects

Not classified.

May be harmful if swallowed. May be harmful in contact with skin.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Causes skin irritation.

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Contains no ingredient listed as toxic to reproduction

## 12. Ecological Information

Ecotoxicological data

Product

Test Results

EC50 Algae: > 56 ppm 72 hours

EC50 Daphnia: > 13 ppm 48 hours

LC50 Fish: > 6.3 ppm 96 hours

Persistence / degradability

Bioaccumulation / Accumulation

Mobility in environmental media

Expected to be inherently biodegradable.

No data available.

No data available for this product.

## 13. Disposal Considerations

Waste codes

Disposal instructions

Waste from residues / unused products

Contaminated packaging

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose in accordance with all applicable regulations.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

Notes

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

## 15. Regulatory Information

Reportable Quantity

Not available

## 16. Other Information

HMIS® ratings

Health: 2

Flammability: 1



## Material Safety Data Sheet

FR-QC-14/Rev 00

NFPA ratings

Disclaimer

Issue date

Physical hazard: 0

Personal protection: X

Health: 2

Flammability: 1

Instability: 0

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