

Triethanolamine

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation


Revision Date: 05-28-2015
Supersedes: 03-25-2013

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Triethanolamine	Distributor: MakingCosmetics.com Inc.
Synonyms: 2,2',2"-nitrilotriethanol	Address: 10800 231 st Way NE
INCI Name: Triethanolamine, TEA	Redmond, WA 98053 (USA)
CAS Number: 102-71-6	Phone / Fax: 425-292-9502 / 425-292-9601
Formula: C ₆ H ₁₅ NO ₃	Web: www.makingcosmetics.com
Product Form: Liquid	
Product Use: Cosmetic use	Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Eye Irrit. 2
GHS Signal Word: **WARNING**

GHS Hazard Pictograms: 

GHS Hazard Statements: H319: Causes serious eye irritation
GHS Precautionary Statements: P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

Potential Health Hazards:
Eyes: Causes serious irritation, tearing and mild temporary pain.
Inhalation: May cause irritation of the respiratory tract.
Skin: May cause skin irritation
Ingestion: Not an intended route of exposure. May be harmful if swallowed. Symptoms include: gastrointestinal tract upset and diarrhea

NFPA Ratings (704):

Health	2	Moderate
Flammability	1	Slight
Reactivity	0	Minimal

Specific Hazard

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Triethanolamine	102-71-6	100%	149.19 g/mol

4 FIRST AID MEASURES

Eyes: In case of eye contact, rinse with plenty of water and seek medical attention if necessary
Inhalation: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary
Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperature. Use dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.
Flash Points: CLOSED CUP: 179.44°C (355°F). OPEN CUP: 190.5°C (374.9°F)
Special protective equipment & precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards: May emit toxic fumes under fire conditions. Combustion products are carbon oxides (CO, CO₂).

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements
Methods and material for containment and cleaning up:	Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Safe handling:	See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.
Safe storage:	Store in cool, dry well ventilated area. Keep away from incompatible materials.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Triethanolamine	Not available		
TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit PEL: Permissible Exposure Limit		STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels CEIL: Ceiling	

Personal Protection:

Eyes:	Wear chemical safety glasses or goggles.
Inhalation:	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin:	Wear nitrile or rubber gloves, apron or lab coat.
Other:	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Clear viscous liquid	Vapor Pressure:	0 kPa (@ 20°C)
Odor:	Ammoniacal (Slight)	Vapor Density:	Not available
Color:	Clear	Evaporation Rate:	Not available
pH Value (1% sol./water):	10	Volatility:	Not available
Boiling Point:	335°C (635°F)	Solubility:	Easily soluble in cold & hot water.
Melting Point:	21.5°C (70.7°F)		Soluble in methanol, acetone.
Specific Gravity:	1.12 (Water = 1)		Slightly soluble in diethyl ether,
Molecular Weight:	149.19 g/mol		n-octanol

10 STABILITY AND REACTIVITY

Reactivity:	No reactivity hazards known
Chemical Stability:	Stable at normal conditions
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use
Conditions to Avoid:	Excess heat, light, exposure to air, exposure to moist air or water, incompatible material
Hazardous Decomposition Products:	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Acute oral toxicity (LD50): 2200 mg/kg [Rabbit]; LD50 [Rat] - Route: Oral; Dose: 4920 ul/kg LD50 [Rabbit] - Route: Skin; Dose: >20ml/kg
Subchronic Toxicity:	No data available
Carcinogenicity:	Not classifiable for human
Teratogenicity:	No data available
Mutagenicity:	Mutagenic for mammalian somatic cells. May cause damage to the following organs: kidneys, liver, skin
Sensitizing:	Based on available data, the classification criteria are not met
Specific Target Organ Toxicity:	Due to lack of data the classification is not possible
Reproductive Toxicity:	No data available
Acute Potential Health Effects:	Skin: May cause skin irritation with burning pain, itching, and redness. May be absorbed through

the skin and affect the liver, metabolism, and urinary tract. Eyes: Causes eye irritation with tearing and burning pain. May cause transient corneal injury. Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May also affect behavior, sense organs, liver and urinary system. Inhalation: Inhalation of mist may cause respiratory tract irritation.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Not available
Persistence and Degradability:	No data is available on the degradability of this product
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available

13 DISPOSAL CONSIDERATIONS

Waste Residues:	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Users should review their operations in terms of the applicable local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated
IATA (International Air Transport Association)	Not regulated
TDG (Transportation of Dangerous Goods, Canada):	Not regulated
ICAO (International Civil Aviation Organization):	Not regulated

15 REGULATORY INFORMATION

TSCA Inventory Status:	TSCA 8(b) inventory: Triethanolamine TSCA 8(d) H and S data reporting: Triethanolamine
DSCL (EEC):	R36- Irritating to eyes. R40- Possible risks of irreversible effects. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label
Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer: Diethanolamine Pennsylvania RTK: Triethanolamine Minnesota: Triethanolamine Massachusetts RTK: Triethanolamine New Jersey: Triethanolamine
WHMIS (Canada):	Not listed
OSHA:	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

16 OTHER INFORMATION

Revision Date:	05-28-2015
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.