

Triethanolamine

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


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Supersedes: 07/22/2020

1 PRODUCT & COMPANY IDENTIFICATION

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

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: Slightly irritating to the eyes.
Inhalation: No known significant effects or critical hazards.
Skin: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

NFPA Ratings (704):

Health	2	Moderate
Flammability	1	Slight
Reactivity	1	Slight
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Triethanolamine	102-71-6	>99.0%	Not available
N,N - Diethanolamine	111-42-2	≤0.5%	Not available

4 FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Skin: Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion: If patient is conscious and can swallow, give two glasses of water (16oz), induce vomiting as directed by medical personnel. Do Not Induce Vomiting or give anything by mouth to an unconscious or convulsing person. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Ignition temperature: 324°C (615°F). Flammable limits: Lower: 1%; Upper: 10%. Use appropriate media (dry chemical, foam, or carbon dioxide) for adjacent fire. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Special protective equipment & precautions for firefighters:

Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Flash Points:

179°C (354°F) (CC)

Specific hazards arising from the chemical:

Container may rupture from gas generation in a fire situation. Violent stream generation or eruption may occur upon application or direct water stream to hot liquids. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:

Ventilate area. Avoid breathing vapor. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions:

Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.

Methods and material for containment and cleaning up:

Contain spill if possible. Shovel up material and place in air-tight container. Avoid contact with skin, eyes, or clothing. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Safe handling:

Minimum feasible handling temperatures should be maintained. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.

Safe storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. May segregate or freeze below 16°C (60°F). Thaw and mix before sampling or using. Storage temperature: 30-43°C (86-109°F) Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Triethanolamine	5.0 mg/m ³	TLV-TWA	ACGIH
N,N Diethanolamine	1 mg/m ³	TWA	ACGIH

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:** Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.
- Inhalation:** Airborne concentration should be kept to lowest levels possible. If vapor, mist, or dust is generated and the occupational exposure limit of the product, or any component of the product is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.
- Skin:** Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry cleaned. Use gloves chemically resistant to this material.
- Other:** Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Vapor Pressure:	No data available
Odor:	Ammonia-like	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	No data available	Flammability:	No data available
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	No data available	Flash Point:	179°C (354°F) (CC)
Boiling Point:	336.1°C (637.0°F)	Specific Gravity @ 25°C:	1.120-1.128
Melting Point:	No data available	Solubility in Water:	No data available
Relative Density:	No data available	Auto-Ignition Temperature:	No data available
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available
Viscosity:	No data available	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Freezing Point:	20.5°C / 68.9°F
Refractive Index:	1.481-1.486	Triethanolamine, wt%:	99.0% MIN
Water, wt%:	0.2% MAX	Molecular weight:	149.19g/mol

10 STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	No data available
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture.
Incompatible Materials:	Avoid contact with: Nitrites, strong acids, strong oxidizers. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases. Corrosive when wet. Heating above 60°C in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas. Avoid unintended contact with: Halogenated hydrocarbons.
Hazardous Decomposition Products:	Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin:	No known significant effects or critical hazards.
Eyes:	Slightly irritating to the eyes.
Respiratory:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
Carcinogenicity:	No data available
Teratogenicity:	No effects or critical hazards.
Germ Cell Mutagenicity:	No known significant effects or critical hazards.
Embryotoxicity:	No effects or critical hazards.
Specific Target Organ Toxicity:	Contains material which may cause damage to the kidneys and liver. [Triethanolamine]
Reproductive Toxicity:	No known significant effects or critical hazards.
Respiratory/Skin Sensitization:	No data available
Corrosivity:	No data available
Sensitization:	No data available
Irritation:	No data available
Repeated Dose Toxicity:	No data available

12 ECOLOGICAL INFORMATION

Ecotoxicity	
Aquatic Vertebrate:	No data available
Aquatic Invertebrate:	No data available
Terrestrial:	No data available
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
PBT and vPvB Assessment:	No data available
Other Adverse Effects:	No data available
Amendment and	Delayed (Chronic) Health Hazard: Yes
Reauthorization Act of 1986	Fire Hazard: No
Title III (EPCRA) Section 311 &	Immediate (Acute) Health Hazard: Yes
312:	Reactive Hazard: Yes
	Sudden Release of Pressure Hazard: No

13 DISPOSAL CONSIDERATIONS

Waste Residues: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures processes, etc. may render the resulting materials hazardous.

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):	Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Diethanolamine) Hazard Class: 9 Identification Number: Not regulated Packing Group: III Label Required: Not regulated. Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A)
TDG (Transportation of Dangerous Goods, Canada):	No data available
IMDG (International Maritime Dangerous Goods):	No data available
IATA (International Air Transport Association):	No data available
ICAO (International Civil Aviation Organization):	No data available

15 REGULATORY INFORMATION

TSCA Inventory Status:	No data available
DSCL (EEC):	This product, or its components, are listed on or are exempt from the inventory.
WHMIS (Canada):	Not regulated
EU EINECS/ELINCS/NLP:	This product, or its components, are listed on or are exempt from the inventory.
China IECSC:	No data available
China IECIC (06.30.2014):	No data available
Australia AICS:	This product, or its components, are listed on or are exempt from the inventory.
Japan MITI:	This product, or its components, are listed on or are exempt from the inventory.

<p>California Prop 65:</p> <p>Florida RTK:</p> <p>Pennsylvania RTK:</p> <p>Rhode Island RTK:</p> <p>SARA Section 302/304 Extremely Hazardous Substances:</p> <p>SARA Section 311 Hazardous Categorization:</p> <p>SARA Section 313 Toxic Chemical:</p> <p>CERCLA 102(A)/dot Hazardous Substances:</p>	<p>The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity:</p> <p>Diethanolamine <0.5%</p> <p>Ethanol 2.2' .2"nitritoltris</p> <p>Ethanol 2.2' .2"nitritoltris</p> <p>Ethanol 2.2' .2"nitritoltris</p> <p>None</p> <p>Acute: Yes</p> <p>Chronic: Yes</p> <p>Fire: No</p> <p>Pressure: No</p> <p>Reactive: N/A</p> <p>None</p> <p>None</p>
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16 OTHER INFORMATION

<p>Revision Date:</p> <p>Compliance:</p> <p>Disclaimer:</p>	<p>10/20/2020</p> <p>This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200</p> <p>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.</p>
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