

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Triethanolamine 85%

TR300-85

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 01-Aug-16
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Alcanolamines **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS: Tri(2-hydroxyethyl)amine; TEA; TEA 99

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Triethanolamine	>99	102-71-6	4190 mg/kg	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: May cause irritation, experienced as stinging with excess blinking and tear production. May cause corneal injury

Skin: May cause skin irritation. May cause redness and itching. May cause sensitization by skin contact

Inhalation: At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation. Inhalation of vapours or mists of the product may be irritating to the respiratory system. May cause coughing.

Ingestion: May cause digestive tract irritation. May cause abdominal discomfort, nausea, vomiting and diarrhea.

SECTION 04: FIRSTAID

Skin Contact: Remove contaminated clothing and launder before reuse. Flush with copious amounts of water for at least 15 minutes. Get medical attention if irritation persists.

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention.

Inhalation, Acute: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: If conscious, wash out mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to physician: Treatment based on sound judgment of physician and individual reactions of patient.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE?	No
IF YES, UNDER WHICH CONDITIONS?	
FLASH POINT (TCC) (C):	177 °C
FLAMMABLE LIMITS:	LEL(% BY VOL.): 1.5 UEL(% BY VOL): N/A
AUTO IGNITION TEMPERATURE (C)	324 °C
EXTINGUISHING MEDIA	Use DRY chemicals, CO2, alcohol foam or water spray.
SPECIAL PROCEDURES:	Isolate and restrict area access. Fight fire from a safe distance and from a protected location. Stay upwind. Use water spray to cool containers. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon. Oxides of nitrogen.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Not Available
SENSITIVITY TO STATIC DISCHARGE	Not Available
SENSITIVITY TO MECHANICAL IMPACT:	Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment.
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.
Procedure for Clean Up: Isolate hazard area and restrict access. Remove sources of ignition and ventilate area. Absorb with an inert dry material and place in an appropriate waste disposal container. Flush area with water to remove trace residue.

SECTION 07: HANDLING AND STORAGE**Handling Procedures and Storage Requirements**

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Do not store in aluminum, aluminum alloys, brass, copper, and carbon steel.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE:	Butyl rubber gloves. Polyvinylchloride gloves. Neoprene gloves. Natural rubber gloves.
RESPIRATOR/TYPE:	If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.
EYE/TYPE:	Chemical goggles; also wear a face shield if splashing hazard exists.
OTHER/TYPE:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
ENGINEERING CONTROL	Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ventilation should be corrosive proof

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Liquid	ODOUR THRESHOLD:	N. Av.
ODOUR:	Slight Ammoniacal.	VAPOUR DENSITY (Air=1):	5.14
VAPOUR PRESSURE (mm Hg @ 20C):	<0.01	SPECIFIC GRAVITY:	1.12
EVAPORATION RATE (Ether = 1):	<0.01	FREEZING POINT (C)	21 °C
BOILING POINT (C):	340 °C	% VOLATILE (WT):	N. Av.
Ph (% SOLUTION):	10.5		
SOLUBILITY IN WATER (% W/W)	Completely soluble.		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable

IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES Yes

IF YES, WITH WHICH ONES: Strong oxidizing agents. Strong acids. Halogenated hydrocarbons. Copper. Corrosive to

copper, brass, and zinc and may soften and or discolour iron.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS This product should not be heated above 60 °C in the presence of aluminum due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen. Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

LC 50 OF MATERIAL, SPECIES AND ROUTE

LD 50 OF MATERIAL, SPECIES AND ROUTE

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:

IRRITANCY OF MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY Material is practically non-toxic to fish on an acute basis.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 6.1, Toxic Liquid, Organic, N.O.S. (Methylene Chloride)

UN NUMBER: 2810

PACKING GROUP: II

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION D2B

D2B TOXIC MATERIALS

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

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