

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: TRIETHANOLAMINE 85%****Page 1 of 3**

MSDS Date: August 22, 2006
Emergency Contact: 1-800-424-9300

SECTION I**PRODUCT NAME:** Triethanolamine 85%**CHEMICAL FAMILY:** phosphate ester**DOT SHIPPING INFORMATION:****SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Triethanolamine	102-71-6	85%	5 mg/m ³ TWA-ACGIH

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA**BOILING POINT (F):** ND**SPECIFIC GRAVITY:** 1.1-1.2**VAPOR PRESSURE (mm Hg):** ND**% VOLATILE, BY VOLUME:** 100%**VAPOR DENSITY (air = 1):** ND**EVAPORATION RATE:** Unknown**SOLUBILITY IN WATER:** ND**APPEARANCE AND ODOR:** Clear, colorless solution with a characteristic odor.**SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT:** 400⁰F (pure Triethanolamine)**FLAMMABLE LIMITS:**

Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:

Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

SPECIAL FIRE-FIGHTING PROCEDURES:

Full Protective Clothing, Self-contained Breathing Apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Wear full protective clothing and positive pressure breathing apparatus.

**SECTION V - REACTIVITY DATA**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS OR MATERIALS TO AVOID: Oxidizing agents

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.

SECTION VI - HEALTH HAZARD DATA

NFPA HAZARDOUS RATING: Health = 2 Flammability = 1 Reactivity = 0

CARCINOGENIC LISTING:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Eyes: May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin: Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness. Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

Ingestion: If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get medical attention.

Ingestion: If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.



SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Do not take internally. Wash thoroughly after handling.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear safety equipment. Dike spill and recover into drums. Ensure that the spilled material does not enter sewers, wells, or watercourses.

WASTE DISPOSAL METHOD:

Comply with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

At or above the PEL, respiratory protection should be used that is NIOSH approved and consistent with exposure limits.

VENTILATION:

Use in well ventilated areas. Control mist and or vapors at or below 5mg/m³ PEL.

EYE PROTECTION:

Goggles.

SKIN PROTECTION:

Rubber gloves.

OTHER PROTECTIVE EQUIPMENT:

As needed to prevent contact with skin and eyes.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.