
Section 1. Supplier Information

CMI Chemical Corporation
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Section 2. Hazardous Ingredients

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Triethanolamine	102-71-6	N/E	N/E	5 mg/m3	N/E	N/E	< 5

N/A = Not Applicable; N/E = Not Established; * = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; ** = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

Section 3. Hazards Identification

Primary Routes of Entry

Inhalation: NO
Skin: YES
Ingestion: YES

Hazardous Materials Information System (HMIS) Ratings

Health:	* 1	0 = Minimal
Fire:	0	1 = Slight
Reactivity:	0	2 = Moderate
		3 = Serious
		4 = Severe
		* = Chronic Hazard

Signs of Symptoms of Exposure:

INHALATION: No effects of exposure expected. At very high concentrations only, this product may cause headache, nose and throat irritation, nausea and/or mental confusion.

SKIN: Prolonged or repeated contact can cause irritation.

EYES: Minimally irritating to the eyes. High vapor concentrations may be irritating.

INGESTION: May dull senses and cause injury if significant quantities are ingested.

Chemical Listed as Potential Carcinogens:

NTP: NO

IARC: NO

OSHA: NO

Target Organs: Kidneys and liver.

Section 4. Emergency And First Aid Procedures

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

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EYES: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

INGESTION: Call a physician or emergency medical facility immediately!

Section 5. Fire Fighting Measures

Flash Point: None to boiling. Method Used: Pensky-Martens Closed Cup

Flammable Limits in Air % by Volume: LEL: N/A UEL: N/A

Extinguisher Media: Water fog, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Water spray may be ineffective in fighting fires, but may be used to cool closed containers. Full protective equipment including self-contained breathing apparatus should be used.

Unusual Fire And Explosion Hazards: Low fire hazard when exposed to heat and flame. Product is not flammable or combustible.

Section 6. Accidental Release Measures

If material is spilled, absorb with sand, earth, or similar inert material. Place in closed, labeled containers for proper disposal.

CERCLA (Superfund) Reportable Quantity (in lbs None).

Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: KEEP FROM FREEZING! Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels.

Other: Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Not required under normal conditions of use.

Local Exhaust: None normally required. Local exhaust may be needed under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: At a minimum, wear safety glasses with side shields.

Other Protection: Eye wash and safety shower should be readily available.

Hygienic Practices: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

Section 9. Physical and Chemical Properties

Boiling Point: 212 ° F

Specific Gravity (H₂O=1): 0.99-1.00

Degree of water solubility:
Negligible = Less than 0.1%

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Vapor Pressure (mm Hg):	Approximately water.	Slight = 0.1% - 1%
Vapor Density (air=1)	> 1	Moderate = 1% - 10%
Solubility in Water:	Complete.	Appreciable = More than 10%
Reactivity in Water:	None.	Complete = 100%
Weight per Gallon (lb/gal):	8.2 - 8.4 lbs/gal	
% Volatile by Volume:	100 %	
% Solid by Weight:	0 %	
Appearance and Odor:	Opaque, white fluid with a mild odor.	
Theoretical VOC: (>0.1 mm Hg @ 20 ° C)	0 lbs/gal	
Analytical VOC : (EPA method 24)	< 0.2 lbs/gal	
pH:	9.0-11.0	

Section 10. Stability and Reactivity

Stability: Stable. Hazard Polymerization: Will not occur.
Conditions to Avoid: Heat, open flame, or hot surfaces.
Incompatibility (Materials to Avoid): None known.
Hazardous Decomposition Products: Silicon dioxide, ammonia, aldehydes, ketones, and oxides of nitrogen and carbon.

Section 11. Toxicological Information

Triethanolamine (TEA) [CASRN 000102-71-6]

ACUTE TOXICITY

Oral, LD50 (Rat; female) = 4.92 ml/kg Dermal, LD50 (Rabbit) > 16 ml/kg; 24 h occluded.
Oral, LD50 (Rat; male) = 8.57 ml/kg

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

Recent analyses of Triethanolamine for N-nitrosodiethanolamine have not revealed its presence at the detection limit of the test (20ppb). However, amines may react with nitrites or other nitrosating agents to form nitrosamines. Some nitrosamines have been shown to be carcinogenic in laboratory animals. [20, 2-19,4,0,5,6-062300]

Section 12. Ecological Information

Triethanolamine (TEA) [CASRN 000102-71-6]

AQUATIC TOXICITY Expected to have low toxicity to aquatic species.

MOBILITY Not expected to selectively partition and absorb to soil or sediments.

BIODEGRADABILITY Readily biodegradable and are not expected to persist in the environment.

POTENTIAL TO BIOACCUMULATE Not expected to bioaccumulate. [7,20-19,J,J,11,5,6,I,F-092299]

Section 13. Disposal Considerations

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: N/A

Section 14. Transport Information

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: NOT REGULATED

Domestic ground bulk: NOT REGULATED

International: NOT REGULATED

Section 15. Regulatory Information

SARA 313 Information This product contains the following chemical(s) above deminis concentrations and may be subject to reporting under section 313:

None.

Section 16. Other Information

This MSDS contains revisions in the following sections: New format

Prepared by: Sandy Bojcevski Chemist

Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.