



# **Material Safety Data Sheet**

HAZARD WARNINGS

Corrosive to eyes and skin on contact. Hygroscopic -- keep container tightly sealed. Harmful compound, minimize exposure.



Section I.	Chemical Product and Company Identificat	ion	
Chemical Name	N-(3-Aminopropyl)diethanolar	nine	
Catalog Number	A1280	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Ethanol, 2,2'-[(3-aminopropyl)imino]bis- (CA INDEX NAME); N,N-Bis(2-hydroxyethyl)-1,3-diaminopropane		Portland OR 1-800-423-8616
Chemical Formula	$C_7H_{18}N_2O_2$		
CAS Number	4985-85-7	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

RISK PHRASES

Section II.	ction II. Composition and Information on Ingredients				
Chemical Name		CAS Number	Percent (%)	TLV/PEL	Toxicology Data
N-(3-Aminopropyl)diethanolamine		4985-85-7	Min. 90.0 (GC)	Not available.	Not available.

Section III.	Hazards Identification			
Acute Health Effects  Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye conta damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in Follow safe industrial hygiene practices and always wear proper protective equipment when handling		E. Eye contact can result in corneal respiratory tract, characterized by if ingested. can result in injury or death.		
Chronic Health Effects	MUTAGENIC EFFECTS: Not a TERATOGENIC EFFECTS: No DEVELOPMENTAL TOXICITY: N	ailable. available. ot available. rith spray mist may p		severe skin irritation. Repeated or entattacks of bronchial infection.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	138℃ (280.4°F).	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (CO,	These products are toxic carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ).		
Fire Hazards	Not available.	Not available.		
Explosion Hazards		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Consult with local fire authorities before atten		perations.	

#### A1280 N-(3-Aminopropyl)diethanolamine Page 2 Section VI. Accidental Release Measures Corrosive material. Hygroscopic material. Harmful material. Spill Cleanup Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside Instructions container. DO NOT touch spilled material. Neutralize the residue with a dilute solution of acetic acid. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal. Section VII. Handling and Storage CORROSIVE. HYGROSCOPIC. HARMFUL. Keep container dry. Keep away from heat. Mechanical exhaust required. Handling and Storage When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe Information gas/fumes/ vapor/spray. Never add water to this product. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids, moisture Section VIII. Exposure Controls/Personal Protection **Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location. Face shield. Lab coat. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a Personal Protection specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent. **Exposure Limits** Not available. Section IX. Physical and Chemical Properties Liquid. (Viscous clear, colorless.) Physical state @ 20°C Solubility Soluble in water. 1.07 (water=1) Specific Gravity 162.23 Molecular Weight Partition Coefficient Not available 207℃ (404.6℃) Not available. **Boiling Point** Vapor Pressure -20°C (-4°F) 5.6 (Air = 1)Melting Point Vapor Density 1.4960 - 1.4990 Not available. Volatility Refractive Index Critical Temperature Not available Odor Ammoniacal. Not available. Not available. Taste Viscosity Stability and Reactivity Data Section X. This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Hygroscopic; keep container tightly closed. Incompatibilities Reactive with oxidizing agents, acids, moisture.

Section XI.	Toxicological Information
RTECS Number	Not available.
Routes of Exposure	Eye Contact. Ingestion. Inhalation. Skin contact.
Toxicity Data	Not available.
Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.
Acute Toxic Effects	Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested.  Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

# A1280 N-(3-Aminopropyl)diethanolamine

Ecotoxicity

Ecological Information

Not available.

Environmental Fate

Not available.

#### Section XIII.

Section XII.

#### Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

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## Section XIV. Transport Information

DOT Classification

DOT Class 8: Corrosive material

PIN Number

UN2735

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Proper Shipping Name

Amines, liquid, corrosive, n.o.s.

Packing Group (PG)

p (PG)

**DOT Pictograms** 



### Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

(EPA)

This compound is  ${\bf ON}$  the EPA Toxic Substances Control Act (TSCA) inventory list.

WHMIS Classification

n

(Canada)

On DSL.

EINECS Number (EEC)

225-642-0

**EEC Risk Statements** 

R34- Causes burns.

CLASS E: Corrosive liquid.

Japanese Regulatory Data

Not available.

#### Section XVI. Other Information

Version 1.0

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#### Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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