

Preparation Date 04-06-2010

Revision date 01-21-2016

Revision number 2

**1. Identification of the Substance/Preparation and of the Company/Undertaking**Product identifier**Product name** EthylaminoethanolOther means of identification**Product code** 51206  
**Synonyms** Ethanol, 2-(ethylamino)-Recommended use of the chemical and restrictions on use**Recommended use** Chemical intermediate.  
**Uses advised against** No information availableDetails of the Supplier of the Safety Data Sheet

Supplier Address	Manufacturer Address
Taminco US LLC	Taminco US LLC
A subsidiary of Eastman Chemical Company	3790 Highway 30
Two Windsor Plaza, Suite 411	St Gabriel, La USA 70776
7540 Windsor Drive	(800) 223-3258
Allentown, PA USA 18195	
T: +(800) 223-3258	

Emergency telephone number

Emergency Telephone

In case of emergency call CHEMTREC 1-800-424-9300  
for International calls 1-703-527-3887**2. Hazards Identification**Classification**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Flammable Liquids	Category 4

Label Elements**Symbols/Pictograms****Signal Word**  
**DANGER**

**hazard statements**

Harmful if swallowed  
 Causes severe skin burns and eye damage  
 combustible liquid

**Precautionary Statement - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces - no smoke

**Precautionary Statements - Response**

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting  
 In case of fire: Use Water spray, fog or regular foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

P501 - Dispose of contents/container in accordance with local regulation

**Hazards Not Otherwise Classified (HNOC)**

Not Applicable

### 3. Composition/information on Ingredients

**Synonyms** Ethanol, 2-(ethylamino)-.

Chemical name	CAS-No	Weight %	Trade secret
Ethylaminoethanol	110-73-6	>99	No

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First aid measures

**First Aid Measures**

<b>General advice</b>	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Get medical advice/attention if you feel unwell.

**Ingestion** If swallowed, rinse mouth with water (only if the person is conscious). Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice.

**Protection of First-aiders** Use personal protective equipment.

**Most Important Symptoms and Effects, Both Acute and Delayed**

No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Dry chemical. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray.

**Unsuitable extinguishing media**

No information available.

**Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep people away from and upwind of spill/leak. Wear suitable protective equipment. Remove all sources of ignition. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible. Pay attention to flashback. Take precautionary measures against static discharges.

**Environmental Precautions**

Prevent product from entering drains. Dispose of contents/container in accordance with local regulation.

**Methods and material for containment and cleaning up**

Use explosion-proof equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal. Suppress (knock down) gases/vapors/mists with a water spray jet. Take precautionary measures against static discharges.

## 7. Handling and Storage

**Precautions for Safe Handling**

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. - No smoking. Do not breathe vapours or spray mist. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use product only in closed system.

**Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from light. Keep in properly labelled containers.

**incompatible materials** Strong acids and oxidizing agents.

**8. Exposure Controls/Personal Protection****Control Parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Face-shield. Wear a positive-pressure supplied-air respirator with full facepiece.
<b>Skin and Body Protection</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory protection</b>	If irritation is experienced, NIOSH approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** . Regular cleaning of equipment, work area and clothing.

**9. Physical and Chemical Properties****Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	ammoniacal
<b>appearance</b>	No information available		
<b>color</b>	colorless		
<b>Property</b>	<b>VALUES</b>	<b>Remarks • Method</b>	
<b>pH</b>	Alkaline		
<b>Melting point/freezing point</b>	-8 °C / 17.6 °F		
<b>Boiling Point/Range</b>	169.5 °C / 337 °F		
<b>flash point</b>	77 °C / 170.6 °F	PMCC	
<b>evaporation rate</b>			
<b>flammability (solid, gas)</b>			
<b>Flammability limit in air</b>			
<b>Upper flammability limit:</b>	No information available		
<b>Lower flammability limit:</b>	No information available		
<b>vapor pressure</b>	0.46 hPa @20°C/68°F		
<b>vapor density</b>	3 (Air =1.0)		
<b>Specific gravity</b>	0.914		
<b>Water solubility</b>	No information available		
<b>Solubility in Other Solvents</b>	No information available		
<b>Partition coefficient</b>	Log Pow : -0.66		
<b>Autoignition temperature</b>	335 °C / 635 °F		
<b>decomposition temperature</b>	No information available		
<b>Kinematic viscosity</b>	No information available		
<b>Dynamic viscosity</b>	No information available mPas		
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing properties</b>	None		

**OTHER INFORMATION**

molecular weight 89.14  
 VOC Content 100%  
 density 0.914 g/cm<sup>3</sup>

**10. Stability and Reactivity****Reactivity**

No Data Available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Keep away from heat and sources of ignition.

**incompatible materials**

Strong acids and oxidizing agents.

**Hazardous decomposition products**

Heating or fire can release toxic gas. Nitrogen oxides (NO<sub>x</sub>). Carbon oxides. Carbon monoxide.

**11. Toxicological Information****Symptoms related to the physical, chemical and toxicological characteristics**

Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough Causes burns to skin and eyes

**Product information**

**LD50/oral/rat =** 1073 mg/kg  
**LD50/dermal/rat =** 3670 mg/kg  
**LC50 Inhalation** > 2.17 mg/l: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration

**Eye irritation** Corrosive  
**Skin irritation** Corrosive  
**sensitization** No information available  
**Mutagenic effects** No information available  
**Specific target organ systemic toxicity (single exposure)** No information available  
**Specific target organ systemic toxicity (repeated exposure)** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA
Ethylaminoethanol 110-73-6 (>99)	Not Listed	Not Listed	Not Listed	Not Listed

**Chronic toxicity** Avoid repeated exposure.

**12. Ecological Information**

**Ecotoxicity****Product information**

LC50/96h/golden orfe=	147 mg/l
LC50/48h/daphnia =	35 mg/l
Toxicity to Algae	No information available
Toxicity to bacteria	No information available

**Persistence/Degradability**  
READILY BIODEGRADABLE.

**Bioaccumulative potential****Mobility in Soil**

No information available

**Other Adverse Effects** No information available

### 13. Disposal Considerations

**Waste Treatment Methods**

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. Transport Information

**DOT**

<b>Shipping Description</b>	UN2735, Amines, liquid, corrosive, n.o.s. (Ethylaminoethanol), 8, PG II
<b>UN-No</b>	UN2735
<b>Hazard class</b>	8
<b>Packing group</b>	II
<b>Reportable Quantity (RQ)</b>	Not Applicable

**IATA**

<b>UN-No</b>	UN2735
<b>Proper shipping name</b>	Amines, liquid, corrosive, n.o.s. (Ethylaminoethanol)
<b>Hazard class</b>	8
<b>Packing group</b>	II

**IMDG/IMO**

<b>UN-No</b>	UN2735
<b>Proper shipping name</b>	Amines, liquid, corrosive, n.o.s. (Ethylaminoethanol)
<b>Hazard class</b>	8
<b>Packing group</b>	II

### 15. Regulatory Information

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies

PICCS Complies  
AICS Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Federal Regulations****SARA TITLE III SECTION 313 INFORMATION:**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous****Categorization**

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

Chemical name	NJ	Ma	Pa
Ethylaminoethanol 110-73-6	Not Listed	Not Listed	Not Listed

**U.S. EPA Label information**

EPA Pesticide registration number Not Applicable

**WHMIS Hazard Class**

B3 Combustible liquid  
D2B Toxic materials

**CANADA**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

**16. Other Information**

<b>NFPA</b>	<b>HEALTH 3</b>	<b>FIRE 2</b>	<b>Instability 0</b>	<b>Physical hazard -</b>
<b>HMIS</b>	<b>HEALTH 3</b>	<b>flammability 2</b>	<b>Physical hazards 0</b>	

Preparation Date 04-06-2010  
Revision date 01-21-2016

**Revision Summary**

Not Available

**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**