



Product Name: Ethylenediamine CAS No.: 107-15-3 Version: 0

#### 1. Identification

**Product Code** : 90907

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### 2. Hazards Identification

#### **Hazard classification**

Flammable liquids : Category 3 Acute toxicity, Oral : Category 4 : Category 4 Acute toxicity, Inhalation Acute toxicity, Dermal : Category 3 Skin corrosion : Category 1B Respiratory sensitisation : Category 1 Skin sensitisation : Category 1 Chronic aquatic toxicity : Category 3

Label elements Hazard symbol



Signal word

**Hazard statement** : Flammable liquid and vapour.

Harmful if swallowed or if inhaled

Toxic in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Harmful to aquatic life with long lasting effects.

**Precautionary statement**: Avoid breathing vapours.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/

face protection.

IF IN EYES: Rinse cautiously with water for several minutes.





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Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER or doctor/physician.

**Supplemental Hazard** 

**Statements** 

: None.

## 3. Composition/information on ingredients

**Ingredient** CAS No Ethylenediamine 107-15-3

#### 4. First Aid Measures

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor

in attendance.

Inhalation If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

Skin contact Take off contaminated clothing and shoes immediately. Wash

off with soap and plenty of water. Take victim immediately to

hospital. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes Eye contact

and consult a physician.

Do NOT induce vomiting. Never give anything by mouth to an **Swallowed** 

unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and effects, both acute and delayed **Indication of any immediate** medical attention and special treatment needed Treatment

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

No data available

### 5. Fire fighting measures

**Extinguishing media** 

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

**Special hazards arising from the**:

substance or mixture

Carbon oxides, Nitrogen oxides (NOx)





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**Advice for firefighters** : Wear self contained breathing apparatus for firefighting if

necessary

**Further information**: Use water spray to cool unopened containers.

#### 6. Accidental Release Measures

Personal precautions, protective : equipment and emergency procedures

: Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can

accumulate in low areas.

**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let

product enter drains. Discharge into the environment must be

avoided.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for

disposal according to local regulations

**Reference to other sections**: For disposal see section 13.

### 7. Handling and Storage

Precautions for safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapour

or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end use(s)** : No data available

## **8. Exposure Controls Personal Protection**

**Control parameters** 

**Components with workplace control parameters** 

**Exposure controls** 

**Appropriate engineering** 

controls

: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN

Personal protective equipment

**Eye/face protection** 

: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such

as NIOSH (US) or EN 166(EU).

**Skin Protection Hand** : Handle with gloves. Gloves must be inspected prior to use. Use





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**protection** proper glove removal technique (without touching glove's outer

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

containinated groves after use in accordance with applicate

and good laboratory practices. Wash and dry hands.

**Body Protection** : Complete suit protecting against chemicals, The type of protective

equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..

**Respiratory protection** : Respiratory protection is required.

# 9. Physical and Chemical Properties

**Appearance** : Liquid.

Odor : No data available pH : 12.2 at 110 g/l at 20 °C

Melting point/freezing point :  $8.5 \, ^{\circ}\text{C}$ Initial boiling point and boiling :  $118 \, ^{\circ}\text{C}$ 

range

Flash Point : 38 °C - closed cup Vapor pressure : 13 h Pa at 20 °C Vapor density : 2.07 - (Air = 1.0) Relative density : 0.899 g/mL at 25 °C

**Solubility in water** : soluble

**Solubility (other)** : No data available

Formula : C2H8N2 Molecular Weight : 60.10g/mol

### 10. Stability and Reactivity

**Reactivity** : No data available

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous** : No data available

reactions

**Conditions to avoid** : Oxidizing agents, Phosphorus halides, Aldehydes, Organic halides

**Incompatible materials** : Oxidizing agents, Strong acids

**Hazardous decomposition** : No data available

products

#### 11. Toxicological Information

## **Information on toxicological effects**

**Acute toxicity** : LD50 Oral - Rat - 1.200 mg/kg

Remarks: Behavioral: Ataxia.

LC50 Inhalation - Rat - 4 h - 14,7 mg/l





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LD50 Dermal Dermal - Rabbit - 560 mg/kg

May cause allergic respiratory and skin reactions

Skin corrosion/irritation Serious eye damage/eye

irritation

Causes burns.

Causes eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity No data available

Carcinogenicity No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**Reproductive toxicity** 

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

**Aspiration hazard** 

Signs and Symptoms of

**Exposure** 

No data available No data available

No data available.

No data available

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly

investigated.

### 12. Ecological Information

Toxicity to fish LC50 - Pimephales promelas (fathead **Toxicity** 

minnow) - 115,7 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 3 mg/l - 48 h Toxicity to algae EC50 - Pseudokirchneriella subcapitata

(green algae) - 151 mg/l - 96 h

Biotic/Aerobic - Exposure time 28 d Persistence and degradability

Result: 94 % - Readily biodegradable

**Bioaccumulative potential** 

No data available.

Mobility in soil No data available.

Other adverse effects Toxic to aquatic life. Avoid release to the environment.

# 13. Disposal consideration

**Disposal instructions** Burn in a chemical incinerator equipped with an afterburner

> and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions

to a licensed disposal company.

Dispose of as unused product. **Contaminated packaging** 





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## 14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	1604	ETHYLENEDIAMINE	8	II	NO
IMDG	1604	ETHYLENEDIAMINE	8	II	NO
IATA	1604	ETHYLENEDIAMINE	8	II	NO

### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

### 16. Other Information

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