

ETHYLENEDIAMINETETRAACETIC ACID

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Ethylenediaminetetraacetic acid

Product Code: 324

CAS#:60-00-4

Synonym: Edathamil

Chemical Name: Not Available

Chemical Formula: C₁₀H₁₆N₂O₈

Formula Weight: 292.24

Chemical Formula: KCl

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name : Ethylenediaminetetraacetic acid

Toxicological Data on Ingredients:

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant)

Potential Chronic Health Effects:

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Teratogenic effects: Not available.

Developmental toxicity: Not available

SECTION 4: 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. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES



Flammability of the Product: Flammable.

Auto-Ignition Temperature: Not Available.

Flash Points: Not Applicable.

Flammable Limits: Not Applicable.

Products of Combustion: Nitrogen oxides (NO_x), cerium oxides

Fire Hazards in Presence of Various Substances: Not Available

Explosion Hazards in Presence of Various Substances: Not Available

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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Large fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Remarks on Fire Hazards: Not Applicable

Special Remarks on Explosion Hazards: Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the Contaminated surface and allow evacuating through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. hygroscopic
Storage class (TRGS 510): Oxidizing hazardous materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use 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 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 not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: White colour crystalline powder.
Odour	: Odourless
Taste	: Not available
Molecular Weight	: Not available
Colour	: Not Available
pH	: Not available
Boiling Point	: Not available
Melting Point	: 250 °C (482°F)
Critical Temperature	: Not available
Specific Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Soluble in water.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Not available..

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Strong oxidizing agents,

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available

Polymerization: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Not available.

Toxicity to Animals:

LD₅₀ Rat - male and female - 4,500 mg/kg

LC₅₀: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Not available.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: ECOLOGICAL INFORMATION



Ecotoxicity: Not Available.

BOD and COD: Not Available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not Available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID:

IMDG:

IATA:

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class (es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID:

IMDG:

IATA:

Environmental hazards:

ADR/RID:

IMDG Marine pollutant:

IATA:

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

H319 Causes serious eye irritation

Other Special Considerations: Not available.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

