


SAFETY DATA SHEET

Ethylenediamine tetraacetic acid

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	60-00-4
EC number:	200-449-4
1.2 SYNONYMS	Ethylenediamine tetraacetic acid; Ethylenediamine-N,N,N',N'-tetraacetic acid; Tetrasodium ethylenediamine tetraacetate; Ethylenediamine tetraacetate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to UN GHS criteria
Hazard Pictograms:	
Signal Word:	Warning
Hazard statements:	H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

	<p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</p>
2.3 Other hazards:	
Inhalation:	Harmful if inhaled Category 4
Ingestion:	no data available
Skin Contact:	no data available
Eye contact:	Causes serious eye irritation. Category 2
Chronic Exposure:	no data available
Aggravation of pre-existing conditions :	no data available

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 60-00-4 Ethylenediamine tetraacetic acid
Identification number(s):	EC number: 200-449-4

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	Call a poison centre or a doctor if you feel unwell.
After inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

After skin contact:	Wash skin with mild soap and water. If skin irritation occurs: Get medical advice/attention.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
After swallowing:	Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.
4.2 Most important symptoms and effects, both acute and delayed:	Harmful if inhaled. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media	Dry powder. Foam
5.2 Special hazards arising from the substance or mixture	Fire hazard: In the event of thermal decomposition: Carbon oxides (CO, CO ₂). Nitrogen oxides. Hazardous decomposition products in case of fire: Toxic fumes may be released.
5.3 Advice for firefighters	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Stay upwind. Ensure adequate ventilation, especially in confined areas. Move containers from fire area if it can be done without personal risk. Cool adjacent tanks / containers / drums with water jet. Prevent fire fighting water from entering the environment. Evacuate personnel to a safe area.
5.4 further information	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.
6.2 Environmental precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not allow water used to extinguish fire to enter drains, ground or waterways. Advice local authorities if considered necessary.
6.3 Methods and material for containment and cleaning up:	Shovel or sweep up and put in a closed container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Use personal protective equipment as required. Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. No smoking. Avoid generation and spreading of dust
7.2 Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Keep cool. Keep dry. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Requirements to be met by storerooms and receptacles:	no data available

7.3 Specific end uses	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	no data available
8.2 Exposure controls	
Appropriate engineering controls	Ensure good ventilation of the work station.
Personal protective equipment:	no data available
General protective and hygienic measures:	no data available
Respiratory protection:	[In case of inadequate ventilation] wear respiratory protection.
Protection of hands:	Protective gloves
Eye protection:	Safety glasses with face shield
Protection of Body:	Wear suitable protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Solid
Colour:	White
Odour:	odourless
pH-value:	No data available
Melting point/Melting range:	Edetic acid decomposes at >220°C.
Boiling point/Boiling range:	Substance decomposes before boiling.
Flammability (solid, gaseous):	Not flammable
Ignition temperature:	No data available
Decomposition temperature:	Not available
Self-igniting:	The substance is a solid and self-heating of the substance up to 400 °C is excluded
Flash point:	Not applicable
Danger of explosion:	Non explosive.

Explosion limits: Lower:	Not applicable.
Explosion limits: Upper:	Not applicable.
Vapour pressure:	No data available
Density at 20 °C:	1.46 g/cm ³
Relative density:	Not available
Vapour density:	Not applicable
Evaporation rate:	No data available
Solubility in / Miscibility with- water at 20 °C:	400 mg/l
Partition coefficient:(n- octanol/water)	-3.86 at 25 °C
Viscosity:	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	The product is non-reactive under normal conditions of use, storage and transport
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use
10.4 Conditions to avoid	Heat. Incompatible materials. Dust formation.
10.5 Incompatible materials	Copper. Copper alloys. Nickel.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	No data available
Skin corrosion/Irritation:	Not irritating to skin
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory damage/irritation:	No sensitisation responses were observed
Ingestion:	Not classified
Germ cell mutagenicity:	Not classified Genetic toxicity: no adverse effect observed (negative)

Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity - single exposure:	Not classified
Specific target organ toxicity - repeated exposure:	May cause damage to organs through prolonged or repeated exposure. (via oral route - systemic effects): (NOAEL: 500mg/kg bw/day; chronic, rat [common rodent species])
Aspiration hazard:	Not classified
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Aquatic Toxicity:	No data available
Biodegradability:	No data available

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	Not classified
12.2 Persistence and degradability:	Not classified
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No additional information available
12.5 Other adverse effects	No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Recommended cleansing agents:	No data available

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not regulated
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not regulated

14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Not regulated
14.4 Packing group · ADR, IMDG, IATA:	Not regulated
14.5 Environmental hazards:	Not regulated
14.6 Special precautions for user	Not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified as harmful substances
Named dangerous substances	This substance is not listed in the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product