

EDTA

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: EDTA, tetrasodium salt
INCI Name: tetrasodium EDTA
Chemical Name: tetrasodium ethylenediaminetetraacetate
CAS Number: 64-02-8
EINECS Number: 200-573-9
Origin: synthetic

Eye Contact: can cause eye irritation.
Skin Contact: can cause skin irritation.
Ingestion: Do not ingest; may cause gastrointestinal irritation.
Material is irritating to mucous membranes

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: not determined
Boiling Point: not determined
Density: not determined
% Volatile by Volume: not determined
Molecular Weight: 380.2g/mol
Solubility in water: easily soluble
pH Value: not determined
Appearance & Odor: white powder

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.
Skin: Wash exposed areas of the body with plenty of water. Cover the irritated skin with an emollient. See medical attention.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Ingestion: Drink water. Do not induce vomiting. If gastrointestinal symptoms develop, consult medical personnel.

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: strong oxidizing agents and strong acids
Hazardous Decomposition: burning can produce carbon monoxide, carbon dioxide and oxides of nitrogen
Hazardous Polymerisation: will not occur

9. FIRE FIGHTING MEASURES

Flammability: may be combustible at high temperatures
Extinguishing Media: water spray, foam, carbon dioxide for large fires; dry powder for small fires
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

10. TOXICOLOGICAL INFORMATION

Acute LD50: 2000 mg/kg (rat, oral)
Dermal and Eye Irritation: slightly hazardous
Carcinogenicity: classified none by NIOSH
Mutagenicity, Teratogenicity: not available

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

12. TRANSPORT INFORMATION

General: not controlled under ADR, IMDG, IATA
DOT Shipping Name: Refer to corresponding hazard class
ADR/ RIC Code: Refer to corresponding hazard class
Sea Transport IMDG Code: Refer to corresponding hazard class
Air Transport IATA: Refer to corresponding hazard class

7. HAZARDS IDENTIFICATION

General: May cause irritation to skin, eyes and respiratory system.
Inhalation: Inhalation of dust may be irritating to the respiratory system.

13. DISCLAIMER

This 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 other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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