ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: Ethylenediaminetetraacetic acid disodium salt
Product Code: 328
CAS#: 6381-92-6
Synonym: Not available
Chemical Name: Not available
Chemical Formula: $C_{10}H_{14}N_2O_8FeNa_2.2H_2O$
Formula weight : 372.2

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:
Name: Ethylenediaminetetraacetic acid disodium salt
Toxicological Data on Ingredients: Acute Tox. 4; STOT RE 2; H332, H373

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Acute toxicity, Inhalation (Category 4), H332
Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory Tract, H373
Potential Acute Health Effects: Not available
Potential Chronic Health Effects: Not available
Carcinogenic Effects: Not available.
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not Available

SECTION 4: FIRST AID MEASURES

Description of first aid measures
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delay: No data available
Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media
Suitable extinguishing media :
Water Foam Carbon dioxide (CO2) Dry powder
Special hazards arising from the substance or mixture
Carbon oxides
Nitrogen oxides (NOx)

Sodium oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Work under hood. Do not inhale substance/mixture.
Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Store in cool place.
Storage Class:
Storage class (TRGS 510): 11: Combustible Solids.
Specific end use(s) A part from the uses:
No other specific uses are stipulated

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 For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	: Crystal
Colour	:White
Odour	: Not available
Odour Threshold	: Not available
pH	: Not available
Melting point/freezing point	: 248 °C
Initial boiling point and boiling range	: Not available
Flash point	: Not available

Evapouration rate	**:** Not available
Flammability (solid, gas)	**:** Not available
Upper/lower flammability or explosive limits	**:** Not available
Vapour pressure	**:** Not available
Vapour density	**:** Not available
Relative density	**:** Not available
Water solubility	**:** Not available
Partition coefficient	**:** Not available
Auto-ignition temperature	**:** Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available
Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents
Conditions to avoid :
no data available
Incompatible materials
Aluminum, Copper, Copper alloys, Nickel, Zinc
Hazardous decomposition products Other decomposition products - In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity:
LD50 Oral - Rat - male and female - 2.800 mg/kg
Remarks: The value is given in analogy to the following substances:
Ethylenedinitrilotetraacetic acid disodium salt
Acute toxicity estimate Inhalation - 1,6 mg/l - dust/mist(Expert judgment)
Skin corrosion/irritation no data available
Serious eye damage/eye irritation no data available
Respiratory or skin sensitization no data available
Carcinogenicity no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 140 mg/l - 48 h
Toxicity to algae	static test - Pseudokirchneriella subcapitata (green algae) - > 60 mg/l - 72 h
Toxicity to bacteria	NOEC - activated sludge - > 640 mg/l - 3 h

Persistence and degradability:
Biodegradability Result: 2 % - Not readily biodegradable.
Remarks: The value is given in analogy to the following substances:
Ethylenedinitrilotetraacetic acid disodium salt
Bioaccumulative potential :
Bioaccumulation Lepomis macrochirus (Bluegill sunfish) - 28 d

at 21 °C - 0,08 mg/l(Edetate disodium dihydrate)
Bioconcentration factor (BCF): 1,8
Remarks: The value is given in analogy to the following substances:
Ethylenedinitrilotetraacetic acid,Tetrasodiumsalt
Mobility in soil no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available
Other adverse affects no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging Dispose of as unused product.

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: No **IMDG Marine pollutant:** No **IATA:** No

SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information 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.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
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.