

MATERIAL SAFETY DATA SHEET (MSDS)



PRODUCT NAME- ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT
CAS No.: 6381-92-6

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

1.1. Product identifier

Product form	: SUBSTANCE
Product name	: ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT
Type of product	: BUFFER
Product Grades (Applicable)	: E0024A (Pack size(s) :- 0.5KG, 1KG, 5KG, 25KG E0024L (Pack size(s) :- 0.5KG, 1KG, 5KG, 25KG E0024H (Pack size(s) :- 0.5KG, 1KG
Product Code	: E0024
CAS No	: 6381-92-6
Formula	: C10H14N2Na2O8 · 2H2O

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses	: Industrial For professional use only
1.2.2. Uses advised against	: No additional information available

1.3. Details of the supplier of the safety data sheet

RYZE CHEMIE
W-68,Mankivli MIDC
Badlapur (E), Thane,
Maharashtra-421503
www.ryzechemie.com

1.4. Emergency Telephone Number

+91- 99-3006-04-04 :

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label Elements

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT
CAS-No.	6381-92-6
EC-No	NA
EC Index-No.	NA

3.2. Mixture

Not applicable

SECTION 4: : First aid measures

4.1. Description of first aid measures

First-aid measures general	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after inhalation	: Wash with plenty of water/... Wash contaminated clothing before reuse. Wash skin with plenty of water.
First-aid measures after skin contact	: breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not applicable
Symptoms/effects after inhalation	: Not applicable
Symptoms/effects after skin contact	: Not applicable
Symptoms/effects after ingestion	: Not applicable
Symptoms/effects after eye contact	: Not applicable

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Carbon dioxide. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No additional information available.
Explosion hazard	: No additional information available.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product. Collect spillage. On land, sweep or shovel into suitable containers.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: No additional information available.
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: No additional information available.
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Packaging materials	: No additional information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear fire/flame resistant/retardant clothing
Respiratory protection	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline powder.
Molecular mass	: 372.24 g/mol
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 4 – 5 (5% Solution in water at 25°C)
pH solution concentration	: No data available
Relative evaporation rate	: No data available

Melting point	: 248 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: > 252 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Water: 100 g/l at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate : No additional information available

Miscibility : No additional information available

Refractive index : No additional information available

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

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. fume.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: pH: 4 – 5 (5% Solution in water at 25°C)
Serious eye damage/irritation	: pH: 4 – 5 (5% Solution in water at 25°C)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - Water	No additional information available
Hazardous to the aquatic environment, short-term(acute)	: No additional information available
Hazardous to the aquatic environment, long-term (chronic)	: No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: No additional information available
Product/Packaging disposal recommendations	

Additional information	:	Dispose of contents/container to a licensed hazardous -waste disposal contractor or collection site except for empty clean containers which can be disposed of as nonhazardous waste.
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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	:	Not regulated
UN-No. (IMDG)	:	Not regulated
UN-No.(IATA)	:	Not regulated
UN-No.(ADN)	:	Not regulated
UN-No. (RID)	:	Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	Not regulated
Proper Shipping Name (IMDG)	:	Not regulated
Proper Shipping Name (IATA)	:	Not regulated
Proper Shipping Name (ADN)	:	Not regulated
Proper Shipping Name (RID)	:	Not regulated
Transport document description (ADR)	:	Not regulated
Transport document description (IMDG)	:	Not regulated
Transport document description (IATA)	:	Not regulated
Transport document description (ADN)	:	Not regulated
Transport document description (RID)	:	Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	Not regulated
Danger labels (ADR)	:	Not regulated

IMDG

Transport hazard class(es) (IMDG)	:	Not regulated
Danger labels (IMDG)	:	Not regulated

IATA

Transport hazard class(es) (IATA)	:	Not regulated
Hazard labels (IATA)	:	Not regulated

ADN

Transport hazard class(es) (ADN)	:	Not regulated
Hazard labels (ADN)	:	Not regulated

RID

Transport hazard class(es) (RID)	:	Not regulated
Hazard labels (RID)	:	Not regulated

14.4. Packing group

Packing group (ADR)	:	Not regulated
Packing group (IMDG)	:	Not regulated
Packing group (IATA)	:	Not regulated
Packing group (ADN)	:	Not regulated
Packing group (RID)	:	Not regulated

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6. Special precautions for user

Overland transport	:	
Classification code (ADR)	:	Not regulated
Limited quantities (ADR)	:	Not regulated
Excepted quantities (ADR)	:	Not regulated
Packing instructions (ADR)	:	Not regulated
Special packing provisions (ADR)	:	Not regulated
Mixed packing provisions (ADR)	:	Not regulated
Portable tank and bulk container instructions (ADR)	:	Not regulated
Portable tank and bulk container special provisions (ADR)	:	Not regulated
Tank code (ADR)	:	Not regulated
Vehicle for tank carriage	:	Not regulated
Transport category (ADR)	:	Not regulated
Special provisions for carriage - Bulk (ADR)	:	Not regulated
Special provisions for carriage - Loading, unloading and handling (ADR)	:	Not regulated
Special provisions for carriage - Operation (ADR)	:	Not regulated
Hazard identification number (Kemler No.)	:	Not regulated
Orange plates	:	Not regulated
Tunnel restriction code (ADR)	:	Not regulated
EAC code	:	Not regulated
- Transport by sea		
Limited quantities (IMDG)	:	Not regulated
Excepted quantities (IMDG)	:	Not regulated
Packing instructions (IMDG)	:	Not regulated
IBC packing instructions (IMDG)	:	Not regulated
Tank instructions (IMDG)	:	Not regulated
Tank special provisions (IMDG)	:	Not regulated
EmS-No. (Fire)	:	Not regulated

EmS-No. (Spillage)	: Not regulated
Stowage category (IMDG)	: Not regulated
Properties and observations (IMDG)	: Not regulated
MFAG-No	: Not regulated

- Air transport

PCA Excepted quantities (IATA)	: Not regulated
PCA Limited quantities (IATA)	: Not regulated
PCA limited quantity max net quantity (IATA)	: Not regulated
PCA packing instructions (IATA)	: Not regulated
PCA max net quantity (IATA)	: Not regulated
CAO packing instructions (IATA)	: Not regulated
CAO max net quantity (IATA)	: Not regulated
ERG code (IATA)	: Not regulated

- Inland waterway transport

Classification code (ADN)	: Not regulated
Limited quantities (ADN)	: Not regulated
Excepted quantities (ADN)	: Not regulated
Equipment required (ADN)	: Not regulated
Special provisions (AND)	: Not regulated
Number of blue cones/lights (ADN)	: Not regulated

- Rail transport

Classification code (RID)	: Not regulated
Limited quantities (RID)	: Not regulated
Excepted quantities (RID)	: Not regulated
Packing instructions (RID)	: Not regulated
Mixed packing provisions (RID)	: Not regulated
Special provisions (RID)	: Not regulated
Portable tank and bulk container instructions (RID)	: Not regulated
Portable tank and bulk container special provisions (RID)	: Not regulated
Tank codes for RID tanks (RID)	: Not regulated
Transport category (RID)	: Not regulated
Colis express (express parcels) (RID)	: Not regulated
Hazard identification number (RID)	: Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT EXTRA PURE is not on the REACH Candidate List

ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT EXTRA PURE is not on the REACH Annex XIV List

ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT EXTRA PURE is not subject to Regulation

(EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

ETHYLENE DIAMINE TETRA ACETIC ACID DISODIUM SALT EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European

Parliament and of the Council of 20 June 2019 on persistent organic pollutants

REACH Candidate List (SVHC)

Not applicable

PIC Regulation (Prior Informed Consent)

Not applicable

POP Regulation (Persistent Organic Pollutants)

Not applicable

Ozone Regulation (1005/2009)

Not applicable

Explosives Precursors Regulation (2019/1148)

Not applicable

Drug Precursors Regulation (273/2004)

Not applicable

15.1.2. National regulations

Germany

Water hazard class (WGK)	:	Water hazard class (WGK) 1, slightly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	The substance is not listed

Denmark

Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.