

**Material Safety Datasheet****(EDTA - 4Na)
Safety Data Sheet (SDS)**

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Section1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifier**

Product Name : 4NA (EDTA - 4Na)
Product Code : N003
CAS Number : 13235-36-4
EC Number : 603-569-9

1.2 Details of the supplier of the safety data sheet

Company : Tata Chemical
Address : 48, Sarovar industrial estate, Nr s.p.Ring
road, Hathijan circale, Vatva, Ahmedabad -
382445
Telephone : +917505896347
e-mail : info@tatachemical.in
Emergency Phone Nr. : Anti Poison (New Delhi) 1066 or 011-1066
Poison Information Centre (CMC, Vellore) 18004251213

1.3 Product use**Section2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008. [EU-GHS/CLP]
Acute toxicity, Category 4 (Oral)
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2
Specific target organ toxicity – single exposure, Category 3

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:



Signal word: Warning

Hazard statement(s):

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P264 Wash /hands/face/forearms/clothing thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up. P501 Dispose of contents/container in accordance with local/regional/ international regulations.

2.3 Other hazards

None known.

Section3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Name	: 4NA(EDTA • 4Na)
Synonyms	: Ethylenediamine- <i>N, N, N', N'</i> -tetra acetic acid, tetrasodium salt, tetrahydrate
Concentration	: ≤ 100 %
Formula	: $C_{10}H_{12}N_2Na_4O_8 \cdot 4H_2O$
Molecular Weight	: 452.23

Section4. FIRST AID MEASURES**4.1 Description of first aid measures**

If inhaled	: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.
If swallowed	: Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact	: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
In case of eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

Section5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Use extinguishing media appropriate for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

May emit toxic fumes under fire conditions.

5.3 Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing if necessary.

Section6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

6.2 Environmental precautions

Prevent further leakage. Prevent contamination of drains with product.

6.3 Methods and materials for containment and cleaning up

Pick up and collect product in suitable container for disposal.

**Material Safety Datasheet****Section 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store in a cool, dark and dry place.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

Personal protective equipment Eye/face protection:

Wear safety glasses with side-shields conforming to European Standard EN166.

Hand protection

: Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

Skin and body protection

: Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

Respiratory protection

: Wear suitable respiratory equipment in case of inadequate ventilation.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

a) Appearance	: White crystalline powder
b) Odor	: Odorless
c) Odor Threshold	: No data available
d) pH	: 10.0 - 12.0 (25°C)
e) Melting point/freezing point	: No data available
f) Initial boiling point and boiling range	: No data available
g) Flash point	: No data available
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper / lower flammability or explosive limits	: No data available
k) Vapor pressure	: No data available
l) Vapor density	: No data available
m) Relative density	: No data available
n) Solubility(ies)	: Solubility in water (5 g / 100 ml)
o) Partition coefficient: <i>n</i> -octanol / water	: No data available
p) Auto-ignition temperature	: No data available
q) Decomposition temperature	: No data available
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available

Section 10. STABILITY AND REACTIVITY**Stability and reactivity**

Reactivity	: Stable
Chemical stability	: Stable at a cool, dark and dry place.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Heat, sunlight, high temperature
Incompatible materials	: Strong oxidizing agents, strong acids and bases
Hazardous decomposition products	: When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

**Material Safety Datasheet****Section 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

- a) Acute toxicity : No data available
b) Skin corrosion / irritation : No data available
c) Serious eye damage/eye irritation : No data available
d) Carcinogenicity : No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.
e) Reproductive toxicity : No data available
f) STOT – SE : No data available
g) STOT - RE : No data available
h) Aspiration hazard : No data available

11.2 Potential health effects

- Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye irritation.

11.3 Additional Information

No additional information is available

Section 12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

Section 13. DISPOSAL CONSIDERATIONS**Waste treatment methods Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: -

IMDG: -

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

Section 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

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

No information available

15.2 Chemical Safety Assessment

No information available



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Section 16. **OTHER INFORMATION**

Key to abbreviations and acronyms

STOT-SE	: Specific Target Organ Toxicity - Single Exposure
STOT-RE	: Specific Target Organ Toxicity - Repeated Exposure
PBT	: Persistent Bioaccumulative and Toxic
vPvB	: very Persistent very Bioaccumulative and toxic
ADR	: european Agreement concerning the international carriage of Dangerous goods by Road
CAS	: Chemical Abstracts Service
IARC	: International Agency for Research on Cancer
IATA	: International Air Transport Association
IMDG	: International Maritime code for Dangerous Goods
REACH	: Registration, Evaluation, Authorization and restriction of Chemicals
RID	: Regulations concerning the international transport of Dangerous goods by rail