

Storage
Disposal

P310: Immediately call a POISON CENTER or doctor/physician
P321: Specific treatment (see ... on this label)
P363: Wash contaminated clothing before reuse
P405: Store locked up
P501: Dispose of contents/container according to the related regulations.

C. Other hazards (according to the NFPA Rating System)

Health	0
Flammability	0
Reactivity	0

3. Composition & Information on Ingredients

Chemical Identity	Common Name	CAS Number	% Volume
EDTA 2Na (C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ ·2H ₂ O)	-	6381-92-6	-
Ammonium Bromide (NH ₄ Br)	-	12124-97-9	-
Sodium Hydroxide (NaOH)	Caustic soda	1310-73-2	-

4. First Aid Measures

A. Eyes	May cause transient irritation
B. Skin	Non-irritating
C. Inhalation	None
D. Ingestion	None expected under normal conditions of use
E. Notes to Physicians	Have a comprehensive understanding of the chemical and treat symptomatically.

5. Fire Fighting Measures

A. Appropriate Extinguishing Media

Water fog, alcohol foam, CO₂, Dry chemical.

B. Specific hazard arising from the chemical

Toxic gases can be produced due to pyrolysis or combustion process.
The product is partially inflammable.

C. Special protective equipment & Precautions for firefighters

Fire-fighters should wear appropriate protective equipment.
Stay a safe distance away from the fire while extinguishing.
If not dangerous, remove the container from the fire.
To dispose of fire water, pour it into a spacious dug lot and make sure it is not spilled or scattered outward. If not dangerous, remove the container from the fire.

6. Accidental Release Measures

A. Protective equipment & Emergency procedures

Give special attention to chemical materials and conditions that must be avoided.

B. Environmental precautions

Prevent the inflow of this product to waterways, drains, basements, and confined spaces.

C. Purification / Removal Method

Dispose of the product as medical waste.

7. Handling & Storage**A. Safe handling**

Follow all prevention measures on the MSDS/labels.

Give special attention to chemical materials and conditions that must be avoided.

Wear personal protective equipment while handling the product.

B. Conditions for Safe Storage

Store in a cool, dry place.

Avoid exposure to direct light and heat

8. Exposure control & Personal protection**A. Exposure Limits for Chemical Substances & Biological Exposure Limits**

N/A

B. System Design (Proper Engineering Controls)

N/A

C. Personal protective equipment

Respiratory protection

Not necessary under normal conditions of use.

Eye protection

Safety glasses are recommended when normal conditions of use are anticipated.

2. Hazard Identification

Hand protection

Chemically impervious gloves are recommended.

4. Skin & body protection

Emergency eye wash fountain.

9. Physical & Chemical Properties**A. Appearance**

Physical state

Clear liquid

Color

N/A

B. Odor

Odorless

C. Odor threshold value

N/A

D. pH

N/A

E. Melting point/Freezing point

N/A

F. Initial boiling point & Boiling range

N/A

G. Flash point

N/A

H. Evaporation rate

N/A

I. Flammability (solid, gas)

N/A

J. Maximum / minimum of the flammable or explosive limits

N/A

K. Vapor pressure

N/A

L. Solubility

Soluble

M. Vapor density

N/A

N. Relative density

1.00

O. Partition coefficient: n-Octanol/water

N/A

P. Auto-ignition temperature

N/A

Q. Decomposition temperature

N/A

R. Viscosity

N/A

S. Molecular weight

N/A

10. Stability & Reactivity N/A

A. Chemical stability & Possibility of hazardous reactions	Stable
B. Conditions to avoid	None
C. Incompatible materials	Strong oxidizing agents
D. Hazardous decomposition or byproduct	Ammonia, Nitrogen oxides under fire conditions

11. Toxicological Information

A. Possible routes of exposure	N/A
B. Information on harmful health effects (Symptoms related to the physical, chemical and toxicological characteristics)	
Acute toxicity	
Oral	N/A
Dermal	N/A
Inhalation	N/A
Skin corrosion/Irritation	N/A
Serious Eyes damage/Irritation	N/A
Respiratory sensitization	N/A
Skin sensitization	May cause irritation to the skin
Serious Eyes Damage/Irritation	May cause irritation to the eyes
Carcinogenicity	N/A
Industrial Safety and Health Act	N/A
Notification of the Ministry of Employment and Labor	N/A
IARC	N/A
4. First Aid Measures	
OSHA	N/A
ACGIH	N/A
NTP	N/A
EU CLP	N/A
Germ cell mutagenicity	N/A
Reproductive Toxicity	N/A
Specific Target Organ Toxicity (Single Exposure)	N/A
Specific Target Organ Toxicity (Repeated Exposure)	N/A
Aspiration Toxicity	N/A

12. Ecological information

A. Ecotoxicity	
Fish	N/A
Shellfish	N/A
Birds	N/A
B. Persistence & Degradability	
Persistence	N/A
Degradability	N/A
C. Bioaccumulative potential	
Accumulation	N/A
Biodegradability	N/A
D. Mobility in soil	N/A
E. Other adverse effects	N/A

13. Disposal Considerations

A. Product Disposal

If stated in the Wastes Control Act, dispose of the contents and container accordingly.

B. Precautions for Disposal

Dispose of the content according to the related regulations.

14. Transport Information

A. UN Number

Classification information on transportation of hazardous materials not available

B. Proper shipping name

N/A

C. Hazard class

N/A

D. Packing Group

N/A

E. Marine pollutant

N/A

F. Any special precautions which an user should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises

(Special precautions which a user needs to be aware of or needs to comply outside their premises with in connection with transport or conveyance either within or outside their premises)

Emergency procedures in case of fire

N/A

Emergency procedures in case of spill/leak

N/A

15. Regulatory Information

A. Regulations according to the Industrial Safety and Health Act

N/A

B. Regulations according to the Toxic Chemicals Control Act

N/A

C. Regulations according to the Safety Control of Dangerous Substances Act

N/A

D. Regulations according to the Safety Wastes Control Act

N/A

E. Other regulations according to domestic and foreign laws

N/A

16. Other Information

A. Source of Data

N/A

B. Date of Creation

01 / 01 / 2013

C. Revision Number and Revision Date

Revision Number

1

Date of Last Revision

08 / 19 / 2014

D. Other Information

The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate and reliable. It is intended to describe the product according to various safety requirements; however, the manufacturer makes no warranty with respect to the accuracy and completeness of the information or the suitability of the recommendation and assumes no liability to any user thereof.