

EDTA 4Na

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations (According to HCS-2012 APPENDIX D TO §1910.1200)

Date of issue: 06/19/2019

Supersedes: 06/19/2019

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : EDTA 4Na
CAS-No. : 13235-36-4

1.2. Recommended use and restrictions on use

Recommended use : Manufacture of cosmetic products, cleaning and maintenance products
Restrictions on use : No information available

1.3. Supplier

Supplier

Shijiazhuang Jackchem Co., Ltd
Douyu Industrial Park, Luancheng County, Shijiazhuang City, Hebei Province, China
051431
T 0311-66500855 - F 0311-85695069

1.4. Emergency telephone number

Emergency number : +86-311-84631641

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Inhalation Category 4 - (H332)
Serious eye damage/eye irritation Category 1 - (H318)
Specific target organ toxicity - repeated Category 2 - (H373)

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Harmful if swallowed.

Harmful if inhaled.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) :

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON Center or doctor/physician.

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
EDTA 4Na	(CAS-No.) 13235-36-4	99.0

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
First-aid measures after inhalation	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth

4.2. Most important symptoms and effects (acute and delayed)

Harmful if swallowed. Harmful if inhaled. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	: No information available

5.2. Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Eliminate all ignition sources if safe to do so. Move containers from fire area if it can be done without personal risk. Ensure adequate ventilation, especially in confined areas.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up	: Collect spillage. Sweep up and shovel into suitable containers for disposal. Avoid generation of dust.
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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

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes or clothing.
Avoid generation of dust.
Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : 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

Storage conditions : Keep tightly closed in a dry and cool place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Derived No Effect Level (DNEL)

Inhalation	Worker - inhalative, long-term – local	1.5 mg/m ³
	Worker - inhalative, short-term – local	3 mg/m ³
	Consumer - inhalative, long-term - local	0.6 mg/m ³
	Consumer - inhalative, short-term - local	1.2 mg/m ³
Oral	Consumer - oral, long-term - systemic	25 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh Water	2.2 mg/L
Sea Water	0.22 mg/L
Intermittent releases to water	1.2 mg/L
Soil	0.72 mg/L
Impact on Sewage Treatment	43 mg/L

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Suitable protective clothing.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : White powder

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Color	: white
Odour	: odourless
Odour threshold	: No data available
pH	: 10.5-11.5
Melting point	: Decomposition > 150°C,
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not highly flammable solid. Combustible solid.
Vapour pressure	: 2E-012 hPa at 25°C,
Relative vapour density at 20 °C	: No data available
Relative density	: 1. 67(20 °C)
Density	: 1. 67 g/cm ³ (20 °C)
Solubility	: Water: 500 g/l (20°C)
Log Pow	: No data available
Auto-ignition temperature	: >200°C at 1013.25 hPa
Decomposition temperature	: Decomposition > 150°C)
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: Non explosive.
Oxidising properties	: No Oxidising

9.2. Other information

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

Dust formation.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Ammonia

Carbon oxides (COx)

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

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LD50 rat (oral) male	1913 mg/kg bw
LD50 rat (oral) female	1780 mg/kg bw
LD50 rat (oral) female/male	> 1780- < 2000 mg/kg bw
LOAEC (inhalation)	Ca. 30 mg/m ³ air (male) based on: act. ingr. (Na ₂ H ₂ EDTA) (Basis for effect level: histopathology of the respiratory tract and lung weights)

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: No sensitization responses were observed.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: 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.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
EDTA 4Na (13235-36-4)	<p>EC50 (72 h): > 100 mg/L test mat. (nominal) based on: growth rate</p> <p>EC50 (72 h): > 60 mg/L test mat. (meas. (geom. mean)) based on: growth rate</p> <p>NOEC (72 h): 79.4 mg/L test mat. (nominal) based on: growth rate</p> <p>NOEC (72 h): 48.4 mg/L test mat. (meas. (geom. mean)) based on: growth rate</p> <p>LOEC (72 h): 99.9 mg/L test mat. (nominal) based on: growth rate</p> <p>LOEC (72 h): 60.6 mg/L test mat. (meas. (geom. mean)) based on: growth rate[Akzo Nobel Chemicals Research, Environmental Chemistry Department (2001)]</p>	<p>LC50 (96 h): 41 mg/L test mat. (nominal) based on: mortality (34 - 62 mg/L, very soft water)[Batchelder TL, Alexander HC, McCarty WM (1980)]</p> <p>LC50 (96 h): 159 mg/L test mat. (nominal) based on: mortality (136-204 mg/L, medium hard water)[EU Risk Assessment (2004c)]</p> <p>LC50 (96 h): 532 mg/L test mat. (nominal) based on: mortality (473-598 mg/L, very hard water)[EU Risk Assessment (2004d)]</p> <p>NOEC (35 d): >= 25.7 mg/L act. ingr. (H4EDTA) (meas. (not specified))[BASF AG (2001b)]</p>	<p>EC50 (48 h): 140 mg/L test mat. (nominal) based on: mobility (100-180 mg/L)[BASF AG (1989)]</p> <p>NOEC (21 d): 25 mg/L test mat. (nominal) based on: reproduction[BASF AG (1998)]</p>

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Material does not bioaccumulate.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

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Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations

Listed on TSCA (Toxic Substance Control Act)

SECTION 16: Other information

Data sources : ECHA reference. LOLI.

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
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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SDS US (GHS HazCom 2012) 20170728

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.