

Safety Data Sheet



tetrasodium ethylenediaminetetraacetate

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

1.1. Product identifier

Product Name	tetrasodium ethylenediaminetetraacetate
CAS No	13235-36-4
REACH registration number	01-2119486762-27-****

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

1.2.1. Relevant identified uses

Use of the substance/mixture :	Manufacture of cosmetic products, cleaning and maintenance products.
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For detailed information please refer to CSR.

1.2.2. Uses advised against

Restrictions on use :	No information available
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1.3. Details of the supplier of the safety data sheet

Only representative REACH24H Consulting Group
Address Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland
E-mail reach@reach24h.com
Supplier Shijiazhuang Jackchem Co., Ltd.
Address Douyu Industrial Park, Luancheng County, Shijiazhuang City, Hebei Province, P. R. China
E-mail summer.rong@hebeichengxin.com
Phone +86-311-84632634

1.4. Emergency telephone number

Emergency number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
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. Label elements

Symbols/Pictograms



Signal word Danger

Hazard Statements H302 - Harmful if swallowed.

H332 - Harmful if inhaled.

H318 - Causes serious eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON Center or doctor/physician.

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P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tetrasodium EDTA	200-573-9	13235-36-4	99.0 - 99.4	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT Rep. Exp. 2; H373

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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.

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.

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.

Ingestion

Rinse mouth.

4.2. Most important symptoms and effects, both 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. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	No information available

5.2. Special hazards arising from the substance or mixture

Fire hazard :

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

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5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Collect spillage.

Sweep up and shovel into suitable containers for disposal.

Avoid generation of dust.

6.4. Reference to other sections

See Section 7 for more information.

See section 8 for more information.

See section 13 for more information.

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

Inhalation

Worker - inhalative, long-term – local 1.5 mg/m³

Worker - inhalative, short-term – local 3 mg/m³

Consumer - inhalative, long-term - local 0.6 mg/m³

Consumer - inhalative, short-term - local 1.2 mg/m³

Oral

Consumer - oral, long-term - systemic 25 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh Water 2.2 mg/L

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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. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

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

Skin and body protection Suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Color	White
Odor	Odorless
Odor Threshold	Not applicable
pH	No information available
Melting point/freezing point	>150°C
Decomposition	
Boiling point / boiling range	Not applicable
Flash point	Not relevant
Evaporation rate	No information available
Flammability (solid, gas)	Not highly flammable solid. Combustible solid.
Flammability Limit in Air	No information available
Vapor Pressure	2E-012 hPa at 25°C
Vapor density	No information available
Density	No information available
Relative density	1.67 g/cm ³ at 20 °C
Bulk density	No information available
Specific gravity	No information available
Water solubility	500 g/l at 20 °C
Partition coefficient	No information available
Autoignition temperature	>200°C at 1013.25 hPa
Decomposition temperature	Decomposition >150°C
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Explosive properties	Not an explosive
Oxidizing properties	No oxidising properties

9.2. Other information

Granulometry	<100 micron 51 %
	<10 micron 1.7 %
	<4 micron 0.2 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

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

Chemical Name	Oral	Dermal	Inhalation
Tetrasodium EDTA	LD50= 1913 mg/kg bw (male) LD50=1780 mg/kg bw (female) LD50 > 1780 - < 2000 mg/kg bw (male/female Rat)	-	LOAEC : 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)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Sensitization

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.

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SECTION 12: Ecological information

12.1. Toxicity

Chemical Name

Tetrasodium EDTA

Algae/aquatic plants

EC50 (72 h): > 100 mg/L test mat. (nominal) based on: growth rate

EC50 (72 h): > 60 mg/L test mat. (meas. (geom. mean)) based on: growth rate

NOEC (72 h): 79.4 mg/L test mat. (nominal) based on: growth rate

NOEC (72 h): 48.4 mg/L test mat. (meas. (geom. mean)) based on: growth rate

LOEC (72 h): 99.9 mg/L test mat. (nominal) based on: growth rate

LOEC (72 h): 60.6 mg/L test mat. (meas. (geom. mean)) based on: growth rate [Akzo Nobel Chemicals

Research,

Environmental

Chemistry

Department (2001)]

Fish

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)]

LC50 (96 h): 159 mg/L test mat. (nominal) based on: mortality (136-204 mg/L, medium hard water) [EU Risk Assessment (2004c)]

LC50 (96 h): 532 mg/L test mat. (nominal) based on: mortality (473-598 mg/L, very hard water) [EU Risk Assessment (2004d)]

NOEC (35 d): >= 25.7 mg/L act. ingr. (H4EDTA) (meas. (not specified)) [BASF AG (2001b)]

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Material does not bioaccumulate.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 UN Number Not regulated

14.2 Proper shipping name Not regulated

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14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special precautions No information available

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 European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Tetrasodium EDTA 13235-36-4	X	X	X	X	X	X	X	X

«-» Not Listed

«X» Listed

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date

07-Apr-2014

Revision date

16-Apr-2018

Revision Note

The first revised edition.

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

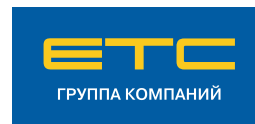
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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Full text of H-Statements referred to under section 3

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.