



Safety Data Sheet EDTA 0.05 mol/l

Section 1: Chemical Product and Company Identification		
Product Name: Ethylenediaminetetraacetic acid	Contact Information:	
Catalog Codes: 731		
CAS#: -	Email: info@drm-chem.com	
RTECS: -	Address: #7, Afshar javan Alley, Sohrevardi St ,Tehran, Iran	
Synonym: EDTA		
Chemical Name: Ethylenediaminetetraacetic acid disodium salt	post code: 1551818111	
	Tehran Sales: +98 21 88177760	
Chemical Formula: Na2-EDTA 2 H2O	Order Online: Drm-chem.com	

Section 2: Composition and Information on Ingredients

Name	CAS #	Concentration
Ethylenediaminetetraacetic acid disodium salt	-	20-30%
Toxicological Data on Ingredients: 1 D50 Oral - Rat - male and female - 2 800 mg/kg		

Toxicological Data on Ingredients: LD50 Oral - Rat - male and female - 2,800 mg/kg.

Section 3: Hazards Identification		
Classification of the substance or mixture		
Classification according to Regulation (EC) No 1272/2008 Corrosive to Metals (Category 1), H290 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory Tract, H373 For the full text of the H-Statements mentioned in this Section, see Section 16.		

Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s)	Warning
H290	May be corrosive to metals.
H373	May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
Precautionary statement(s	s)
P234	Keep only in original packaging.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P314	Get medical advice/ attention if you feel unwell.
P390	Absorb spillage to prevent material damage.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml) Pictogram



Signal word Warning Hazard statement(s) none Precautionary statement(s) none Supplemental Hazard Statements None

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 4: First Aid Measures

Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult aphysician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible. Fire may cause evolution of: nitrogen oxides Ambient fire may liberate hazardous vapours.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from

contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 3.

Conditions for safe storage, including any incompatibilities Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Section 8: Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet. supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

Recommended Filter type: filter ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance	Form: liquid Color: colorless
b) Odor	odorless
c) Odor Threshold	Not applicable
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
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
I) Vapor density	No data available
m) Relative density	1.14 g/cm ³ (20 °C)
n) Water solubility	at 20 °C soluble
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	Not applicable
q) Decomposition temperature	No data available
r) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
s) Explosive properties	No data available

No data available

Other safety information No data available

Section 10: Stability and Reactivity Data

Reactivity

No data available

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

Violent reactions possible with: The generally known reaction partners of water. Violent reactions possible with: The generally known reaction partners of water.

Conditions to avoid no information available

Incompatible materials Metals

Hazardous decomposition products In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available Acute toxicity estimate Inhalation - 4 h - > 5 mg/l (Calculation method) Dermal: No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

Mixture may cause damage to organs through prolonged or repeated exposure. - Respiratory Tract

Aspiration hazard No data available

Additional Information Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Components

Ethylenedinitrilotetraacetic acid disodium salt

Acute toxicity

LD50 Oral - Rat - male and female - 2,800 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Inhalation - 1.6 mg/l (Expert judgment) Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation Remarks: (ECHA)

Respiratory or skin sensitization No data available

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

Inhalation - May cause damage to organs through prolonged or repeated exposure. - Respiratory Tract Inhalation - Lungs, larynx Inhalation – larynx

Aspiration hazard

No data available

Section 12: Ecological Information

Toxicity

Mixture No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects No data available

Components

Ethylenedinitrilotetraacetic acid disodium salt		
Toxicity to fish	static test LC100 - Oncorhynchus mykiss (rainbow trout) – 860 mg/l - 24 h Remarks: (ECHA)	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 140 mg/l – 48 h (DIN 38412)	
Toxicity to bacteria	static test EC50 - activated sludge - > 500 mg/l - 0.5 h (OECD Test Guideline 209)	

Section 13: Disposal Considerations

Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 14: Transport Information			
ADR/RID: -	IMDG: -	IATA: -	
UN proper shipping name ADR/RID: Not dangerous goods			
IMDG: Not dangerous goods IATA: Not dangerous goods			
Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -	
Packaging group ADR/RID: -	IMDG: - IATA: -		
Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
Special precautions for user			
Further information			

Not classified as dangerous in the meaning of transport regulations.

Section 15: Other Regulatory Information

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

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

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

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

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

References: Not available

Other Special Considerations: Not available

Created: 12/2023

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