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Material Safety Data Sheet

EDTA Zn

Section 1: Chemical Product and Company Identification

Molecular formula:C10H12N2Na2O8Zn
CAS Nr: 14025-21-9
Molecular weight: 399.59942

Synonyms: Disodiumzinc ethylenediaminetetraacetate; EDTA zinc disodium salt;
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
EDTA Zn Na2	14025-21-9	100

Section 3: Hazards Identification

Classification of the substance:
Classification according to Regulation (EC) No 1272/2008:
Not classified as dangerous
Classification according to Directive 67/548/EEC:
Not classified as dangerous
Most important adverse physicochemical, human health and environmental effects:
see sections from 9 to 12.
Label Elements:

Hazard pictograms : none

Signal word: none

Hazard statements: none

Precautionary statements: none

Other hazards:

None

Section 4: First Aid Measures

4.1 Description of first aid measures

Routes of exposure:

- Inhalation:

Well ventilate the area and go to the open space.

- Skin:

Take off all contaminated clothing. Rinse abundantly with water and soap. Seek medical advice in case of irritation. Wash clothes before reuse.

- Eye:

Rinse immediately and abundantly with water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if the irritation spreads out

- Ingestion:

Rinse mouth, give water to drink, induce vomiting. If the subject is unconscious do not induce

Advice:

Who provides the first medical aide must use the individual protection equipment (latex gloves and safety glasses).

4.2 Most important symptoms and effects, both acute and delayed

ovides the first medical aide must use the individual protection equipment (latex gloves and safety glasses).

- Inhalation:

Possible irritation of respiratory tract

- Skin:

Possible irritation according to the contact time with the product

- Eye:

Possible irritation according to the contact time with the product

- Ingestion:

Possible irritation of mouth and digestive tract.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident, seek immediately medical advice showing the safety data sheet

Section 5: Fire and Explosion Data

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, foam, carbon dioxide (CO 2),

Information on the appropriate extinguishing media:

Not relevant

Unsuitable extinguishing media:

None

Indications if extinguishing media are inappropriate for a particular situation involving the substance or mixture:

None

5.2 Special hazards arising from the substance:

In case of fire avoid to breath fumes , it may release toxic fumes (NOx, COx)

5.3 Advice for firefighters

In case of fire and in close proximity wear the protective clothes heat resistant and air respiratory equipment.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Keep away from the affected area people not involved in the emergency intervention

Alert the responsible of the internal emergency

For emergency responders:

Wear protective clothes giving a total skin protection, latex gloves and safety glasses.

6.2 Environmental precautions:

If possible store into a clean container either to reuse or disposal . Avoid waterway and discharging contamination, competent authority must be informed in case of waterway accidental contamination.

6.3 Methods and material for containment and cleaning up:

Any release should be immediately cleaned up wearing protective clothes(suit, latex gloves and safety glasses).

If possible store into a clean container either to reuse or disposal. If possible absorb with the inert material

After store , wash the area with water and suitable materials

6.4 Reference to other sections:

referred to Sections 8 and 13

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid direct contact with skin and eyes. See the following section 8 .

Remove all protective clothing before access to the areas where you eat

Always respect hygienic rules, do not drink neither eat in the working areas

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a well-ventilated place far from humidity and heat source.

7.3 Specific end use(s)

None

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Occupational exposure limit values:

ACGIH

Substance name	TLW-TWA (ppm)	TLV-STEL (ppm)	note	critical effects
Zinc EDTA	N.A.	N.A.	N.A.	N.A.

Biological limit values: N.A.

DNEL: N.A

PNEC: N.A.

Recommended monitoring procedures: N.A.

8.2 Exposure control

Individual protection measures, such as personal protective equipment:

The personal protective equipment must be compliant to the regulation UNI –EN in force

Eye / face protection:

Wear safety glasses according to the standard EN 166, don't use contact lenses.

Skin protection:

-Hand protection:

Wear latex gloves according to the standard EN 374.

-Other:

Wear total skin protection clothes

Respiratory protection:

Use anti-powder mask with P2 filters in case of dust making. The powder exposition limit must be respected

- Environmental exposure controls:

Keep the product concentration under the exposure limits established by the law

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearence (25° C): White microgranules

Odour: Odourless

Odour threshold: N.A.

pH: at 25 ° C

Melting point/freezing point: N.A.

Initial boiling point and boiling range:

N.A.

Flash point: N.A

Evaporation rate: N.A.

Flammability (solid, gas): N.A.

Upper/lower flammability or explosive limits:

>40

Vapour pressure:

Vapour density: N.A.

Relative density: 0.9

Solubility:

Solubility in water:1000 **g/l at 25° C**

- Lipid solubility:N.A. **g/l at 25° C**

Partition coefficient:

n-octanol/water

N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A. **cps**

Explosive properties: N.A.

Oxidising properties: N.A.

9.2 Other information

pH water solution 1% 5.0 at 25° C

Conductivity 0.4 (1‰) mS/cm 18 ° C

Section 10: Stability and Reactivity Data

10.1 Reactivity:

Reacts with strong oxidizing agents

10.2 Chemical stability:

Stable at the usual work condition

10.3 Possibility of hazardous reactions:

The water solution in contact with copper and aluminum can develop hydrogen

10.4 Conditions to avoid:

Heating of the product at high temperatures (>200° C)

10.5 Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:

In case of fire may release toxic fumes (NOx, COx)

Section 11: Toxicological Information

Toxicological (health) effects caused by exposure to the substance: see also sections 2 and 4.

11.1 Information on toxicological effects

- acute toxicity:

not available data

- skin corrosion/irritation:

not available data

- serious eye damage/irritation:

not available data

- respiratory or skin sensitisation:

not available data

- germ cell mutagenicity:

not available data

- Carcinogenicity:

not available data

- **reproductive toxicity:**

not available data

- **STOT-single exposure:**

not available data

- **STOT-repeated exposure**

not available data

- **aspiration hazard:**

Information on likely routes of exposure:

Inhalation: can be irritant for nose and respiratory system

Skin: can be irritant for skin

Eye: can be irritant for eyes

Ingestion: can be irritant for mouth and digestive tract

Other informations:

N.A.

Section 12: Ecological Information

Use according to good working rules, avoid to dispose of the product in the environment (see sections 6,7, 13,14 e 15)

12.1 Toxicity

N.A.

12.2 Persistence and degradability

N.A.

12.3 Bioaccumulative potential

N.A.

12.4 Mobility in soil

N.A**.**

12.5 Results of PBT and vPvB assessment

N.A.

12.6 Other adverse effects

N.A.

Section 13: Disposal Considerations

Waste treatment methods

Recover the product, if possible, or send to the incineration and disposal system.

Avoid waterway and discharging contamination.

Follow the local and national disposition in force

Section 14: Transport Information

Not dangerous product within the meaning of transport regulations

Section 15: Other Regulatory Information

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

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Regulation (EC) nr 1272/2008 (CLP). Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent).

Commission Directive 2000/39/EC ocupational exposure limit values).

Regulation (EC) No 1907/2006 (REACH).

15.2. Chemical safety assessment

N.A.

Section 16: Other Information

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRI

ACGIH - Threshold Limit Values - 2004 edition

ESIS

Acronyms used in the safety data sheet:

ADN: Accord europeen relative au transport international des marchandises dangereuses par voies de navigation interieures

ADR: Accord europeen relative au transport International des marchandises dangereuses par route

ACGIH: American Conference of Governmental Industrial Hygienist

LC50: Lethal concentration 50(Lethal Concentration for the 50% of the individuals)

CLPlassification, Labelling and Packaging

CSR: Chemical Safety Report

LD 50: Lethal Dose 50 ((Lethal dose for the 50% of the individuals)

DNEL : Derived No effect level

RC: taal Agency for Research on Cancer

IATA:air transport association

ICAO: International Civil aviation Organization

Codice IMDG: International Maritime Dangerous Goods code

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

RID: Reglement concernent le transport International ferroviarie des marchandises dangereuses

STEL: short term exposure limit

TLV: threshold limit value

TWA: Time Weighted Average

UE: European Union (Unione europea)

vPvB: Very persistent very bioaccumulative

N.A. : not available

References: Not available.

Other Special Considerations: Not available.
Last Updated: 2013.8.14 16:00 pm

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