SAFETY DATA SHEET

Zn 10% EDTA SL

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: NP-0361-A

Revision date: 2019-03-04

Format: EU Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) NP-0361-A

Product Name Zn 10% EDTA SL

REACH registration number 01-2119963942-27-0003

EC-No 237-865-0

CAS-No 14025-21-9

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

Recommended Use: A soluble micronutrient fertiliser for use in agriculture and horticulture

Restrictions on useUse as recommended by the label.

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Agro Limited

Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 1244 537370
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point Tel: +44(0) 1244 537370

Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

Emergency telephone Tel: +44(0) 1244 537370 (Office hours only)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

This product has no classification under CLP This product has no label elements. Hazard symbol not required.

2.2. Label elements

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Hazard pictograms

This product has no classification under CLP This product has no label elements. Hazard symbol not required.

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Trade name: Zn EDTA Liquid

Substance name: disodium [[N,N'-ethylenediylbis[N-(carboxylatomethyl)glycinato]](4-)-N,N',O,O',ON,ON'] zincate(2-)

IUPAC name: Zinc(2+) ion disodium 2-({ 2-bis(carboxylatomethyl)amino]ethyl} (carboxylatomethyl)

Other names: Ethylenediaminetetraacetic acid, zinc disodium complex

REACH reg.: 01-2119963942-27-0003

CAS: 14025-21-9 EC: 237-865-0

Molecular formula: C₁₀H₁₂N₂O₈Na₂Zn

3.2 Mixtures

This product is a substance not a mixture.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye ContactHold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if

irritation persists.

Skin Contact Wash off immediately with soap and plenty of water.

Inhalation Remove person from exposure ensuring one's own safety while doing so. If symptoms

persist, call a doctor.

Ingestion Rinse mouth with water and afterwards drink plenty of water or milk. If vomiting does occur,

rinse mouth and drink fluids again.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

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Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam, Water spray, Dry chemical, Carbon dioxide (CO2).

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released in fire situations.

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides (NOx).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Avoid dust formation.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Transfer to a closable, labeled salvage container for disposal by an appropriate method.

Refer to section 13 of SDS for suitable method of disposal. After cleaning, flush away

traces with water.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

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Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific Use(s)

No data available.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) Workers - Hazard via inhalation route (long term exposure, systemic effect) – 30 mg/m³

Workers - Hazard via inhalation route (acute/short term exposure, systemic effect) - Low

hazard (no threshold derived)

Workers - Hazard via inhalation route (acute/short term exposure, local effect) – 10 mg/ m 3 Workers - Hazard via dermal route (long term exposure, systemic effect) - 62 500 mg/kg

bw/day

 $General\ Population\ -\ Hazard\ via\ inhalation\ route\ (long\ term\ exposure,\ systemic\ effect)-7,5$

mg/m³

General Population - Hazard via dermal route (long term exposure, systemic effect) - 31

250 mg/kg bw/day

General Population - Hazard via oral route (long term exposure, systemic effect) - 6,25

mg/kg bw/day

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Predicted No Effect Concentration

(PNEC)

PNEC aqua (freshwater) – 2,97 mg/L

PNEC aqua (marine water) - 0.3 mg/L

PNEC aqua (intermittent releases) - 1.1 mg/L

PNEC STP - 66 mg/L

Sediment (freshwater) - No exposure of sediment expected Sediment (marine water) - No exposure of sediment expected

AIR - No hazard identified PNEC soil – 0,21 mg/kg soil dw.

8.2. Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Provide emergency on-site eyewash.

Hand Protection Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of

materials such as nitrile or neoprene.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory ProtectionThe product is not likely to present an airborne exposure concern during normal handling,

but in the event of a discharge of the material which produces a heavy dust, workers should

put on officially approved face mask or respiratory protection.

Environmental exposure controls Refer to specific Member State legislation for requirements under Community

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environmental legislation.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical StateLiquidAppearanceLiquidOdourOdourlessColourlight grey

Odour threshold
pH
5.0 - 7.0 (1% solution)
Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation Rate
No information available
No information available
No information available
No information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density
Specific gravity
Water solubility

No information available
No information available
No information available
1.31 - 1.33 g/cm³
No information available

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic

No information available
-10.316 (n-octanol/water)
No information available
starts to decompose at 263°C
No information available
No information available

Explosive properties Not explosive

Oxidising properties Non-oxidizing (by EC criteria)

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Density
Bulk density
No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerisation

Hazardous polymerization does not occur.

Hazardous reactions

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

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Heat.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions. See Section 5.2 for more information.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

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LD50 Oral > 2000 mg/kg (rat) (Method: OECD 423)

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitisation Mutagenicity Carcinogenicity Non-irritating. Slightly irritating. Non-sensitizing

Not mutagenic.

Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

STOT - single exposure STOT - repeated exposure

This product does not contain any known or suspected reproductive hazards. Not classified.

Not classified.

Symptoms Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity The ecotoxicity of the product is measured as:

LC50 (fish) - 685 g/L/ 96 h EC50 (daphnia) - >100 mg/L/ 48 h

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12.2. Persistence and degradability

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Not readily biodegradable.

12.3. Bioaccumulative potential

The substance has a low potential to bioaccumulate in the environment.

12.4. Mobility in soil

Mobility in soil

Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Transfer to a suitable container and arrange for collection by specialised disposal company. Alternatively, the product can be sent for water treatment. Diluted product and washings

should also be sent for water treatment.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

EWC Waste Disposal No 02 01 09

OTHER INFORMATIONNOTE: The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal.

Section 14: TRANSPORT INFORMATION

NOTE NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Marine PollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

RID

14.1UN/ID noNot regulated14.2Proper Shipping NameNot regulated14.3Hazard classNot regulated14.4Packing GroupNot regulated14.5Environmental HazardNot applicable14.6Special ProvisionsNone

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ADR/RID

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable14.6 Special ProvisionsNone

ICAO/IATA

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable14.6 Special ProvisionsNone

Section 15: REGULATORY INFORMATION

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

National regulations

- 1. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENTAND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with amendments
- 2. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 3. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments

- 4. Regulation (EU) No 649/2012 Of The European Parliament and of The Council of 4 July 2012 concerning the export and import of hazardous chemicals.
- 5. Regulation (EC) No 850/2004 Of The European Parliament and of The Council Of 29 April 2004 On Persistent Organic Pollutants And Amending Directive 79/117/EEC.
- 6. European Agreement Concerning The International Carriage Of Dangerous Goods By Road (ADR), 2017

European Union

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

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Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: OTHER INFORMATION

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

<u>Legend</u>

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

DNEL: Derived No Effect Level (DNEL)

EINECS: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

SVHC: Substances of Very High Concern for Authorisation:

TWA: time weighted average

vPvB: very Persistent and very Bioaccumulative

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Reason for revision: Initial Release.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By

FMC Corporation

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End of Safety Data Sheet