

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 24.11.2022

Version: 2.0

Date previous version: 28.03.2022

Previous version: 1.0

Date / First version: 28.03.2022

Product: **Zinc-Glycinate**

(ID no. 30591125/SDS_GEN_BE/EN)

Date of print 24.06.2026

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

1.1. Product identifier

Zinc-Glycinate

UFI: 85ME-U0M1-E00J-CDN6

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

Relevant identified uses: feed additive(s)

1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY

Contact address:
BASF Belgium Coordination Center Comm.
V.
Drève Richelle 161 E Bte 43
1410 WATERLOO, BELGIUM

Telephone: +31 26 371 71 71
E-mail address: product-safety-benelux@basf.com

1.4. Emergency telephone number

Centre Antipoisons / Antigifcentrum
+ 32 70 245 245
International emergency number:
Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H302	Harmful if swallowed.
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear eye and face protection.
P273	Avoid release to the environment.

Precautionary Statements (Response):

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 physician.
P330	Rinse mouth

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Hazard determining component(s) for labelling: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-, zinc sulphate (anhydrous)

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2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Blend based on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-, zinc sulphate (anhydrous)

Regulatory relevant ingredients

Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Content (W/W): >= 75 % - <= 100 %	Acute Tox. 4 (oral)
CAS Number: 536974-54-6	Eye Dam./Irrit. 1
	Aquatic Acute 1
	M-factor acute: 1
	M-factor chronic: 1
	H318, H302, H400

| zinc sulphate (anhydrous)

Content (W/W): > 0 % - < 10 %	Acute Tox. 4 (oral)
CAS Number: 7733-02-0	Eye Dam./Irrit. 1
EC-Number: 231-793-3	Aquatic Acute 1
REACH registration number: 01-2119474684-27	Aquatic Chronic 1
INDEX-Number: 030-006-00-9	M-factor acute: 1
	M-factor chronic: 1
	H318, H302, H400, H410

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

| Keep patient calm, remove to fresh air.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

| Wash thoroughly with soap and water

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

| **Rinse mouth and then drink 200-300 ml of water.**

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

| Treatment: Symptomatic treatment (decontamination, vital functions).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

water spray, dry powder, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

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5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours, carbon oxides, nitrogen oxides, sulfur oxides, metal compounds

Advice: Evolution of fumes/fog. Burning produces harmful and toxic fumes. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8. Avoid dust formation. Ensure adequate ventilation. Do not breathe dust. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up. Collect waste in suitable containers, which can be labeled and sealed.

Dispose of absorbed material in accordance with regulations. Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Paper/Fibreboard, High density polyethylene (HDPE), Low density polyethylene (LDPE), Polypropylene (PP)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

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Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with eyes. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	free flowing, Microgranule (MG)	
Colour:	white to beige	
Odour:	odourless	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
decomposition point:	approx. 200 °C	
Boiling point:	(1.013 hPa) The substance / product decomposes therefore not determined.	
Flammability:	not highly flammable	(UN Test N.1 (ready combustible solids))
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Flash point:	not applicable, the product is a solid	
Thermal decomposition:	>= 295 °C (DSC (DIN 51007)) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
pH value:	4 - 5 (water, 10 %(m), 20 °C)	
Viscosity, kinematic:	not applicable, the product is a solid	

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Viscosity, dynamic: not applicable, the product is a solid

Solubility in water: mainly soluble

Partitioning coefficient n-octanol/water (log Kow): not applicable for mixtures

Vapour pressure: negligible

Density: not determined

Relative vapour density (air): The product is a non-volatile solid.

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Flammable solids

Burning rate: 200 mm, 0 s (UN Test N.1 (ready combustible solids))
The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.
An ignition of the test substance does not lead to a propagation by burning with flame or smouldering.

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2. (VDI 2263, sheet 1, 1.4.1)

Corrosion to metals

Corrosive effects to metal are not anticipated.

Other safety characteristics

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Minimum ignition energy:

The product is not capable of a dust explosion.

Bulk density:

960 kg/m³

Hygroscopy:

hygroscopic

Angle of repose:

29 °

(trickle test (lab for material testing))

SAPT-Temperature:

Study scientifically not justified.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

None known during use and storage if used according to instructions.

10.6. Hazardous decomposition products

Hazardous decomposition products:

| No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Experimental/calculated data:

LD50 rat (oral): 1.000 - 2.000 mg/kg (OECD Guideline 423)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: zinc sulphate (anhydrous)

Experimental/calculated data:

LD50 rat (oral): 1.710 mg/kg (OECD Guideline 401)

Information on: zinc sulphate (anhydrous)-----

Information on: zinc sulphate (anhydrous)

Experimental/calculated data:

LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402)

No mortality was observed.

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: zinc sulphate (anhydrous)

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Experimental/calculated data:

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Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: zinc sulphate (anhydrous)

Experimental/calculated data:

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: zinc sulphate (anhydrous)

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

Most of the results from the available studies show no evidence of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity:

Not classified, due to lack of data.

Reproductive toxicity

Assessment of reproduction toxicity:

Not classified, due to lack of data.

Developmental toxicity

Assessment of teratogenicity:

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Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Remarks: Based on available data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

Aspiration hazard

not applicable

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 12: Ecological Information

12.1. Toxicity

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Assessment of aquatic toxicity:

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Toxicity to fish:

LC50 (96 h) 0,489 mg/l equivalent to 0,169 mg/L Zn²⁺, Oncorhynchus mykiss (Fish test acute, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

Information on: zinc sulphate (anhydrous)

Toxicity to fish:

LC50 (96 h) 0,417 mg/l, Oncorhynchus mykiss (other, static)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Aquatic invertebrates:

LC50 (48 h) 0,197 mg/l equivalent to 0,068 mg/L Zn, Daphnia magna (Daphnia test acute, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

Information on: zinc sulphate (anhydrous)

Aquatic invertebrates:

LC50 (48 h) 1,027 mg/l, Ceriodaphnia dubia (OECD Guideline 202, part 1, semistatic)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Aquatic plants:

EC50 (72 h) 0,394 mg/l equivalent to 0,136 mg/L Zn²⁺ (growth rate), Pseudokirchneriella subcapitata (Growth Inhibition Test, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

Information on: zinc sulphate (anhydrous)

Aquatic plants:

EC50 (72 h) 0,336 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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No observed effect concentration (72 h) 0,047 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on:zinc sulphate (anhydrous)

Microorganisms/Effect on activated sludge:

EC50 (3 h) 5,2 mg/l, (OECD Guideline 209, aerobic)

Information on:Zincate(1-), diaqua(glycinato-κO)[sulfato(2-)-κO]-, hydrogen, (T-4)-

Chronic toxicity to fish:

No observed effect concentration (30 d) 0,039 - 0,974 mg/l, Salmo gairdneri, syn. O. mykiss (OECD Guideline 215, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on:zinc sulphate (anhydrous)

Chronic toxicity to fish:

No observed effect concentration (27 d) 0,062 mg/l, Clupea harengus (other, semistatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on:zinc sulphate (anhydrous)

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (50 d) 0,077 mg/l, Daphnia magna (Daphnia test chronic, semistatic)

Assessment of terrestrial toxicity:

No data available.

Information on:zinc sulphate (anhydrous)

Soil living organisms:

No observed effect concentration (21 d) 350 mg/kg, Eisenia foetida (OECD Guideline 207, artificial soil)

The details of the toxic effect relate to the nominal concentration.

No observed effect concentration (28 d) 180 mg/kg, other soil dwelling arthropod (other, other)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

No observed effect concentration (52 d) 162 mg/kg, soil dwelling microorganisms (other, other)

Information on:zinc sulphate (anhydrous)

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Terrestrial plants:

EC10 (21 h) 235 - 5.855 mg/kg, Triticum aestivum (OECD Guideline 208)

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The organic component of the product is biodegradable. Inorganic product which cannot be eliminated from water by biological purification processes.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8. Additional information

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Add. remarks environm. fate & pathway:

The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINCATE(1-), DIAQUA(GLYCINATO-KO)[SULFATO(2-)-KO]-, HYDROGEN, (T-4)-)

Transport hazard class(es): 9, EHS

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

RID

UN number or ID number: UN3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINCATE(1-), DIAQUA(GLYCINATO-KO)[SULFATO(2-)-KO]-, HYDROGEN, (T-4)-)

Transport hazard class(es): 9, EHS

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

Inland waterway transport

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ADN

UN number or ID number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINCATE(1-), DIAQUA(GLYCINATO-KO)[SULFATO(2-)-KO]-, HYDROGEN, (T-4)-)

Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINCATE(1-), DIAQUA(GLYCINATO-KO)[SULFATO(2-)-KO]-, HYDROGEN, (T-4)-)

Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: EmS: F-A; S-F

Air transport

IATA/ICAO

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINCATE(1-), DIAQUA(GLYCINATO-KO)[SULFATO(2-)-KO]-, HYDROGEN, (T-4)-)

Transport hazard class(es): 9, EHS
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

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14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

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List entry in regulation: E1

List entry in regulation: E2

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 4 (oral)

Eye Dam./Irrit. 1

Aquatic Acute 1

Aquatic Chronic 2

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Acute Tox.

Acute toxicity

Eye Dam./Irrit.

Serious eye damage/eye irritation

Aquatic Acute

Hazardous to the aquatic environment - acute

Aquatic Chronic

Hazardous to the aquatic environment - chronic

H318

Causes serious eye damage.

H302

Harmful if swallowed.

H411

Toxic to aquatic life with long lasting effects.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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Vertical lines in the left hand margin indicate an amendment from the previous version.