essedielle
ENOLOGIALIMENTAZIONE
SISTEMA DI GESTIONE PER LA SICUREZZA ALIMENTARE
CQY CERTIQUALITY
UNI EN ISO 22000:2018
OPERATORE CONTROLLATO S 1262
CERTIFICATO ICEA BIOLOGICO
essedielle srl
Loc. Macinini Fraz. Caldari
66026 Ortona (CH)
Num. REA CH-72915
P.IVA e CF: 00639090695
Codice Univoco SUBM70N
Capitale Sociale € 100.000,00

SAFETY DATA SHEET

ZINC SULPHATE

Revision No. 1, May 2026; Complies with Reg (EU) 2020/878

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE MANIFACTURING COMPANY

1.1 Product identification
Chemical name: zinc sulphate eptaidrate
Trade name: zinc sulphate eptaidrate

1.2 Relevant identified uses of the substance/mixture and uses not recommended
Food additive, for professional use only.

1.3 Information about the supplier of the safety data sheet
essedielle srl
S.P. 538 km. 6,950 - CALDARI
66026 ORTONA (CH)
ITALY
Phone: +39 (0) 85 9031315
Qualified persons responsible for the safety data sheet: laboratorio@essedielle.com

1.4 Emergency telephone number: essedielle srl +39 (0) 85 9031315 – 0039 3668134126
Poison Control Center
S.S. Annunziata Hospital – Chieti +39 0871 1551219

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
Criteria EC Regulation 1272/2008 (CLP): the product is not considered hazardous according to EC Regulation 1272/2008 (CLP).
Physicochemical effects harmful to human health and the environment: no other hazards

2.2 Label elements
Symbols: GHS05 – GHS07 – GHS9
Hazard statements: H302 – H318 – H410
Cautionary statements: P270 – P273 – P280
Special provisions: none
Special provisions according to Annex XVII of REACH and subsequent adaptations: none

2.3 Other hazards
vPvB substances: none - PBT substances: none
Contains: amorphous silica in colloidal aqueous solution

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Chemical name: Zinc sulphate eptaidrate
Hazardous components under EC Regulation 1272/2008 (CLP) and their classification
CAS 7446-20-0
CE 231-793-3
MOLECULAR WEIGHT 287,54 g/mol

3.2 Mixtures
No mixtures, pure product.

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4. FIRST AID MEASURES

4.1 Description first aid measures
In case of inhalation: take the casualty to fresh air. If breathing is difficult give oxygen or give artificial respiration.
In case of skin contact: remove contaminated clothing immediately. Wash immediately with plenty of running water and soap, if necessary, the areas of the body that have come in contact with the toxicant, even if only suspected. Wash the body completely (shower or bath).
In case of eye contact: wash immediately with running water with open eyelids for at least 15 minutes. Consult an ophthalmologist. Protect the uninjured eye.
In case of ingestion: induce vomiting. Seek immediate medical attention, showing the MSDS.

4.2 Main symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any need for immediate medical attention and special treatment
No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Water. Carbon dioxide (CO_2).
Extinguishing media that should not be used for safety reasons
None.

5.2 Special hazards from combustion products
Do not inhale the gases produced by the explosion and combustion.

5.3 Recommendations for fire suppression operators
Employ appropriate respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety standpoint, move undamaged containers from the immediate danger area.

5.4 Other information
Water used in firefighting that is contaminated with the product should be disposed of in accordance with local regulations.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
For those not taking direct action: move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.
For direct interveners: eliminate all open flames and possible sources of ignition. Do not smoke. Provide adequate ventilation.
Evacuate the danger area and, if necessary, consult an expert

6.2 Environmental precautions
Prevent penetration into the soil/subsoil. Prevent runoff into the sewer system.

6.3 Methods and materials for containment and remediation
For containment: collect the product for reuse, if possible, or disposal. If possible, absorb it with inert material. Prevent it from entering the sewage system.
For cleanup: after collection, wash the area and affected materials with water.

Other information: none in particular.

6.4 Reference to other sections
See also paragraph 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Do not eat or drink while working.
Also refer to section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials: none.
See also section 10 below.
Indication for premises: adequately ventilated premises.

7.3 Specific end uses
Food industries: handle with care. Store in a clean, dry and ventilated environment, away from heat sources and direct sunlight. Keep container tightly closed.
Industrial uses: handle with extreme care. Store in a well-ventilated place and away from heat sources.
Professional uses: handle with caution.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
DNEL exposure limit values: data not available
PNEC exposure limit values:

END-POINT	THRESHOLD	ORGANISM	COMPARTO AMBIENTALE	TEMPO DI ESPOSIZIONE
PNEC	20.6 ug/l	Water organisms	sea	Short term
PNEC	6,1 ug/l	Water organisms	water	Short term
PNEC	100 ug/l	Water organisms	Weter sediments	Short term
PNEC	117,8 mg/kg	Water organisms	Underwater sedimets	Short term
PNEC	56,5 mg/kg	Water organisms	soil	Short term
PNEC	35,6 mg/kg	Water organisms		Short term

8.2 Exposure controls

Appropriate engineering controls
Food industries: no specific control provided (act according to correct practice and specific regulations provided for the type of associated risk)
Industrial uses: no specific control provided (act according to correct practice and specific regulations provided for the associated type of risk)
Professional uses: no specific control provided (act according to correct practice and specific regulations provided for the associated type of risk)

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Individual protection measures
Eye protection
Wear safety glasses with side shields according to EN 166. Operate according to good working practices in any case.

Skin protection
Wear clothing to fully protect the skin when handling the pure product.

Hand protection
Use chemical-resistant protective gloves (EN 374-1/EN374-2/EN374-3) when handling the pure product. When handling the pure product wear full skin protection clothing (generic/anti-acid work dress, S3-EN ISO 20345 safety shoes) or other protective equipment as directed by the RSPP.

Respiratory protection
Not necessary when adequate ventilation is provided. Alternatively, use protective mask.

Thermal hazards
None

Environmental exposure controls
None

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Solid
Shape	Powder
Color	White
Odor	Odorless
Olfactory threshold	Not determined
Ph value	4-6
CHANGE OF STATE	
Melting point/interval	Not determined
Boiling point/interval	100°C
Flash point	Non flammable
Flammability (solids, gases)	Non flammable
Auto-ignition temperature	Not determined
Decomposition temperature	>150°C
Explosive properties	Non explosive
Lower flammability limits	Not determined
Upper flammability limits	Not determined
Vapor pressure at 20°C	Not determined
Density at 20°C	1.97 g/cm^3
Relative density	Not determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Totally soluble and miscible
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not determined
Dynamic Viscosity at 20 °C	Less than 50 mPas

Kinematic Viscosity	Not determined

9.2 Other information

Molecular mass	Not determined
Conductivity	Not determined
Liposolubility	Not determined
Particular properties groups of substances	
Other Useful Information	None

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
Under normal conditions, it is completely stable to air and light.

10.2 Chemical stability
No hazardous reaction if handled and stored according to regulations.

10.3 Possibility of dangerous reactions
Stable under normal conditions.

10.4 Conditions to be avoided
None.

10.5 Incompatible materials
None.

10.6 Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Toxicological information regarding the main substances in the mixture: the product is non-toxic.

Unless otherwise specified, the data required by Regulation 453/2010/EC below are intended to be undetermined:

(a) acute toxicity: LD50: > 5,000 mg/kg Species: rat
(a) Estimated value based on tests on similar products.
(b) skin corrosion/irritation: based on available data, the classification criteria are not met.
(c) serious eye injury/irritation: accidental contact of the product with the eyes may cause irritation
(d) respiratory or skin sensitization: in contact with the skin, the product is not an irritant. Repeated and prolonged direct contacts may degrease and irritate the skin causing dermatitis in some cases.
(e) germ cell mutagenicity: ames test: negative; Method: OECD Directive 471 - Mutagenicity - Reversion test on bacteria.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) - single exposure: based on available data the classification criteria are not met.
(i) specific target organ toxicity (STOT) - repeated exposure: based on available data the classification criteria are not met.
(j) aspiration/inhalation hazard: on inhalation/inhalation causes abrupt irritation of the nasal fauces with repercussions on the visual apparatus which is severely affected. Prolonged exposures to vapors or mists of the product may cause irritation to the respiratory tract.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
(a) Acute aquatic toxicity
12.1.1. Fish toxicity
LC50: > 5,000 mg/l
Exposure time: 96h
Species: Danio rerio (zebrafish)
Estimated value based on tests on similar products.
12.1.2. Toxicity to daphnia and other aquatic invertebrates
EC50: 7,600 mg/l
Exposure time: 48 h
Species: Ceriodaphnia dubia (water flea).
Estimated value based on tests on similar products.
12.1.3. Toxicity to algae
NOEC: 60 mg/l
Exposure time: 48h
Species: Selenastrum capricornutum (green algae).
Estimated value based on tests on similar products.
EC50: 120 mg/l
Exposure time: 48 h
Species: Selenastrum capricornutum (green seaweed).
Estimated value based on tests on similar products.
EC10: 140 mg/l
Exposure time: 48 h
Species: Selenastrum capricornutum (green seaweed).
Estimated value based on tests on similar products.

12.2 Persistence and degradability
Not relevant, inorganic substance.

12.3 Bioaccumulative potential
N.A.

12.4 Mobility in soil
N.A.

12.5 Results of PBT and vPvB assessment vPvB substances: None **- PBT substances:** None

12.6 Other adverse effects
None known.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Inorganic product not to be disposed of through biological treatment systems. Dispose of residues in accordance with current regulations through authorized disposers.
Recover if possible. Operate in accordance with current local and national regulations.
CONTAMINATED PACKAGING
Empty as best as possible by fully opening them. Dispose of in accordance with the constituent material.

13.2 HP Phrases
None

14. TRANSPORTATION INFORMATION

14.1 UN number
Not included in the scope of dangerous goods transport regulations: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN shipping name
N.A.

14.3 Transport hazard class(es)
ADR/RID/ADN 9
IMDG-Code 9
ICAO-TI 9

14.4 Packing group
ADR/RID/ADN 9
IMDG-Code 9
ICAO-TI 9

14.5 Environmental hazards Marine pollutant
N.A.

14.6 Special precautions for users
N.A.

14.7 Transport of bulk according to MARPOL Annex II and the IBC Code
Bulk transport is not provided.

15. REGULATORY INFORMATION

15.1 Health, safety and environmental laws and regulations specific to the substance or mixture
Legislative Decree 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances)
Legislative Decree 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations)
D.M. Labor 26/02/2004 (Occupational exposure limits)
Ministerial Decree 03/04/2007 (Implementation of Directive No. 2006/8/EC)
Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1272/2008 (CLP)

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Regulation (EC) No. 790/2009 (ATP 1 CLP)
Regulation (EU)No 453/2010 (Annex I)
Regulation (EU) No 286/2011 (ATP 2 CLP)
Restrictions related to the product or the contained substances according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent adaptations: none
Where applicable, please refer to the following regulations:
Ministerial Circulars 46 and 61 (Aromatic Amines)
Legislative Decree No. 238 of September 21, 2005 (Seveso Ter Directive)
EC Regulation No. 648/2004 (Detergents).
Royal Decree No. 147 of January 9, 1927 (Toxic Gases)
D.L. 3/4/2006 n. 152 Environmental regulations

15.2 Chemical safety assessment
No

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.
This document was prepared by a technician competent in SDS and who has received appropriate training.
The information contained herein is based on our knowledge as of the date above.
It relates only to the product indicated and does not constitute a guarantee of any quality. The user is responsible for ensuring the suitability and completeness of this information in relation to the specific use to be made of it.

Main bibliographic sources
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition -Van Nostrand Reinold
CCNL - Annex 1
Istituto Superiore di Sanità - National Inventory of Chemical Substances.

LEGENDA SIGLES
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Service of the Chemical Abstract (division of the American Chemical Society).CLP: Classification, Labeling, Packaging.
DNEL: Derived no-effect level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on hazardous substances, Germany.
GHS: General harmonized system of classification and labeling of chemicals.
IATA: International Air Transport Association.
IATA-DGR: Regulations for the Transport of Dangerous Goods of the "International Air Transport Association"(IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"(ICAO).
IMDG: International Maritime Dangerous Goods Code.
INCI: International nomenclature of cosmetic ingredients.
KSt: Coefficient of explosion.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
N.A.: Not Available
PNEC: Predicted no-effect concentration.
RID: Regulations concerning the international transport of dangerous goods by rail.
STE: Short-term exposure.

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STEL: Short-term exposure limit.
STOT: Specific target organ toxicity.TLV: Threshold limit value.
TWATLV: Threshold limit value for an 8-hour weighted average exposure per day. (ACGIH standard).
WGK: German water hazard class.