

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: Zinc Sulphate (Heptahydrate) AR

CAS#: 7446-20-0

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: Not available.

Composition and Information on Ingredients

Substance / Preparation: ZINC SULPHATE PURE
(HEPTAHYDRATE) 99% CAS
No:7446-20-0
Substance.

Contains no other components or impurities which will influence the classification of the product.

Name	S.K.U	Classification
Zinc Sulphate (Heptahydrate) AR	GCS-6254	

Hazards Identification

Classification of the substance or mixture

Classification EC

67/548 or EC 1999/45

Classification:

Xn; R22

X

i

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R

4

1

N

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R

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5

3

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards:

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Environmental hazards:

Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP: Aquatic Acute 1) H400 Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP: Aquatic Chronic 1) H410

Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s):

Xn: Harmful

N: Dangerous for the environment

R Phrase(s):

R22: Harmful if swallowed. R41: Risk of serious damage to eyes. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s):

S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39: Wear eye/face protection. S46: If swallowed seek medical advice immediately and show this container or label. S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

Signal words:

Danger

Hazard statements:

H318: Causes serious eye damage. H302: Harmful if swallowed. H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P280: Wear protective gloves, protective clothing, eye protection, face protection. P273: Avoid release to the environment. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P391: Collect spillage. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards

Other hazards:

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation: Assure fresh air breathing. Allow the victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Ingestion: Obtain emergency medical attention. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: Causes serious eye damage. Swallowing a small quantity of this material will result in serious health hazard.

Indication of any immediate medical attention and special treatment needed:

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream. Surrounding fires: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters:

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection. Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

Environmental precautions:

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up:

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Reference to other sections:

See section 8. Exposure controls/personal protection

Handling and Storage

Precautions for safe handling

Handling: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end use(s): Specific end use(s): None.

Exposure Controls/Personal Protection

Exposure controls

Personal protection:	Avoid all unnecessary exposure.
Respiratory protection:	Wear approved mask.
Hand protection:	Wear protective gloves.
Eye protection:	Chemical goggles or safety glasses.
Others:	When using, do not eat, drink or smoke.

Control parameters

Occupational Exposure Limits: No data available.

Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Solid.
Colour:	White crystalline
Odour:	Odorless
Odour threshold:	No data available.

pH value:	Not applicable.
Melting point [°C]:	> 500 °C
Flash point [°C]:	N/A
Boiling point [°C]:	> 5000C
Vapour pressure [20°C]:	N/A
Vapour density:	N/A
Density [g/cm3]:	1,97
Solubility in water [% weight]:	Soluble in water
Solubility in water:	N/A
Log Pow octanol / water at 20°C:	No data available.
Solubility:	4 - 6
Viscosity at 40°C [mm2/s]:	N/A
Other information	
Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties: No data available.	
Stability and Reactivity Data	
Reactivity:	Not established.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Not established.
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures.
Incompatible materials:	Materials to avoid: Strong acids. Strong bases. Hazardous decomposition products: Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.
Toxicological Information	
Information on toxicological effects	
Acute toxicity	
• Inhalation:	Based on available data, the classification criteria are not met.
• Dermal:	Based on available data, the classification criteria are not met.
• Ingestion:	Harmful if swallowed.
Corrosion:	Causes serious eye damage.

Irritation:	Based on available data, the classification criteria are not met.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.

Ecological Information

Toxicity: Very toxic to aquatic life with long lasting effects.

Persistence – degradability: May cause long-term adverse effects in the environment.

Bioaccumulative potential: Not established.

Mobility in soil: Not established.

Results of PBT and vPvB assessment:

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects:

Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste Disposal:

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Transformation Information

Land transport (ADR-RID)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077

H.I. nr: 90

ADR - Class: 9

Sea transport (IMDG) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077

IMO-IMDG - Class or division: 9: Miscellaneous dangerous substances and articles. IMO-
IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N°: 3077

IATA - Class or division: 9: Miscellaneous dangerous substances and articles.

IATA - Packing group: III

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Ensure all national/local regulations are observed. REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment: It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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