

MATERIAL SAFETY DATA SHEET

ZINC SULPHATE (Heptahydrate) AR MSDS CAS: 7446-20-0

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Zinc Sulphate (Heptahydrate) AR

CAS#: 7446-20-0

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: Not available.

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
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Section 2: 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.

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: Xn; R22
Xi; R41
N; R50-53

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.

Section 3: Hazards Identification (Continued)

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.

Section 4: 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).

Section 5: 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.

Section 6: 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

Section 7: 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.

Section 7: Handling and Storage (Continued)

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.

Section 8: 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.

Section 9: 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

Section 9: Physical and Chemical Properties (Continued)

Solubility in water:	N/A
Log Pow octanol / water at 20°C:	No data available.
Solubility:	4 - 6
Viscosity at 40°C [mm ² /s]:	N/A

Other information

Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties:	No data available.

Section 10: 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.

Section 11: 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.

Section 12: 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.

Section 13: 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.

Section 14: Transport 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.

Section 14: Transport Information (Continued)

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

Section 15: 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.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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