

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 06554 Issue date: 02-07-2021 Revision date: 02-07-2021 Supersedes version of: 09-04-2014 Version: 1.0

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

1.1. Product identifier

Product form	: Substance
Trade name	: ZINC SULPHATE HEPTAHYDRATE EXTRA PURE
Chemical name	: Zinc (II) sulphate Heptahydrate
EC Index-No.	: 030-006-00-9
EC-No.	: 231-793-3
CAS-No.	: 7446-20-0
Product code	: 06554
Formula	: ZnSO4·7H2O
Synonyms	: White vitriol, Goslarite

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

1.2.1. Relevant identified uses

Use of the substance/mixture Use of the substance/mixture

Industrial. For professional use onlyLaboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

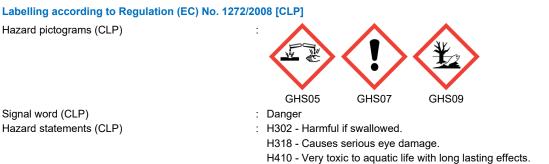
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410
Full text of H-statements: see section 16	
Adverse physicochemical, human health and environmental effects	
Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic	life with long lasting effects.
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP) :	\wedge \wedge



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Precautionary statements (CLP)	: P273 - Avoid release to the environment.
	P280 - Wear protective clothing, eye protection, face protection.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P501 - Dispose of contents and container to a licensed hazardous-waste disposal
	contractor or collection site except for empty clean containers which can be disposed of as
	non-hazardous waste.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances	
Substance type	: Mono-constituent
Name	: ZINC SULPHATE HEPTAHYDRATE EXTRA PURE
CAS-No.	: 7446-20-0
EC-No.	: 231-793-3
EC Index-No.	: 030-006-00-9

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of water/ Get immediate medical advice/attention. Wash skin with plenty of water.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms/effects after eye contact Symptoms/effects after ingestion	 Causes serious eye damage. Serious damage to eyes. Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

SECTION 5: Firefighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Carbon dioxide. Dry powder. Foam. Water spray.Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture	
land and the second state of the second state in the second state	

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Advice for firefighters	
rotection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release m	easures
5.1. Personal precautions, protective	equipment and emergency procedures
.1.1. For non-emergency personnel	
mergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes
.1.2. For emergency responders	
rotective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protectiv equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
3.2. Environmental precautions	
void release to the environment.	
3.3. Methods and material for contain	iment and cleaning up
or containment	: Collect spillage.
lethods for cleaning up	 Mechanically recover the product. Minimise generation of dust. On land, sweep or shovel into suitable containers.
ther information	: Dispose of materials or solid residues at an authorized site.
3.4. Reference to other sections	
or further information refer to section 13.	

	-9-
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid dust formation. Provide good ventilation in process area to prevent formation of vapour. Wear personal protective equipment.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	Icluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

e crystalline powder. 54 g/mol e. urless. lata available 6 (5% aqueous solution) lata available °C applicable lata available applicable 0 °C flammable. lata available lata available
lata available g/cm³
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SECTION 9: Physical and chemical properties

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Solubility	: Water: Soluble in water Ethanol: Soluble in Ethanol.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	

Bulk density

: 800 - 1000 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 4 – 6 (5% aqueous solution)
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 4 – 6 (5% aqueous solution)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
ZINC SULPHATE HEPTAHYDRATE EXTRA PURE (7446-20-0)	
Viscosity, kinematic	Not applicable
Potential adverse human health effects and : Harmful if swallowed. symptoms	

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SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects. Not classified Very toxic to aquatic life with long lasting effects.	
12.2. Persistence and degradability		
ZINC SULPHATE HEPTAHYDRATE EXTRA PU	JRE (7446-20-0)	
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential No additional information available		
12.4. Mobility in soil No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		

Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

Transport document description (IATA)	Heptahydrate), 9, III, MARINE POLLUTANT : UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphat
	Heptahydrate), 9, III, (-)
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphat
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	 Environmentally hazardous substance, solid, n.o.s. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.2. UN proper shipping name	
UN-No. (RID)	: UN 3077
UN-No. (ADN)	: UN 3077
UN-No. (IATA)	: UN 3077
UN-No. (IMDG)	: UN 3077
UN-No. (ADR)	: UN 3077
14.1. UN number	

: 9

: 9

: 9

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Transport document description (ADN)	
Transport document description (RID)	

: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

14.3. Transport hazard class(es)

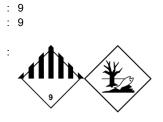
ADR

Transport hazard class(es) (ADR) Danger labels (ADR)





Transport hazard class(es) (IMDG) Danger labels (IMDG)



ΙΑΤΑ
Transport hazard class(es) (IATA)
Danger labels (IATA)



ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

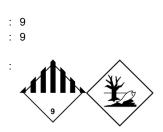


RID

Transport hazard class(es) (RID) Danger labels (RID)

14.4. Packing group

Packing group (ADR)	:	Ш
Packing group (IMDG)	:	Ш
Packing group (IATA)	:	Ш
Packing group (ADN)	:	Ш
Packing group (RID)	:	III



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14.5. Environmental hazards	
14.5. Environmental hazarus	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
14.0. Special precautions for user	
Overland transport	
Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions	: TP33
(ADR)	
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT : 3
Transport category (ADR) Special provisions for carriage - Packages (ADR)	: 3 : V13
Special provisions for carriage - Packages (ADR) Special provisions for carriage - Bulk (ADR)	: V13 : VC1, VC2
Special provisions for carriage - Loading, unloading	: CV13
and handling (ADR)	
Hazard identification number (Kemler No.)	: 90
Orange plates	
	· 90
	2077
	3077
Tunnel restriction code (ADR)	:-
EAC code	: 2Z
Transport by sea	
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02 : PP12
Special packing provisions (IMDG) IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
.	
Air transport	. 54
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: Y956 : 30kaC
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: 30kgG : 956
PCA packing instructions (IATA) PCA max net quantity (IATA)	. 956 : 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197, A215
ERG code (IATA)	: 9L

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Inland waterway transport	
Classification code (ADN)	: M7
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP.A
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of
	transport in bulk.
- - - /	
Rail transport	
Classification code (RID)	: M7
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: PP12, B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions	: TP33
(RID)	
Tank codes for RID tanks (RID)	: SGAV, LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W13
Special provisions for carriage – Bulk (RID)	: VC1, VC2
Special provisions for carriage - Loading, unloading	: CW13, CW31
and handling (RID)	
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions ZINC SULPHATE HEPTAHYDRATE EXTRA PURE is not on the REACH Candidate List ZINC SULPHATE HEPTAHYDRATE EXTRA PURE is not on the REACH Annex XIV List ZINC SULPHATE HEPTAHYDRATE EXTRA PURE is not subject to 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. ZINC SULPHATE HEPTAHYDRATE EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants **15.1.2. National regulations Germany** Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 432) Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) **Netherlands**

Netherianus	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	

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Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
<u>.</u>			

Very toxic to aquatic life with long lasting effects.

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Abbreviations and acronyms	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H318	Causes serious eye damage.
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Safety Data Sheet (SDS), EU

H410

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.