

Zinc sulfate concentrate**32047-6X1EA**

Version 2.1

Revision Date 10/20/2022

Print Date 06/05/2023

SECTION 1. IDENTIFICATION

Product name : Zinc sulfate concentrate

Number : 000000021475

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : odourless

Hazard Summary : None known. Results of PBT and vPvB assessment, see chapter 12.5.

Classification of the substance or mixture

Classification of the substance or mixture : Acute toxicity, Category 4, Oral
Serious eye damage, Category 1

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GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Harmful if swallowed.
Causes serious eye damage.

Precautionary statements

: **Prevention:**Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ eye protection/ face protection.**Response:**IF SWALLOWED: Call a POISON CENTER or doctor/ physician
if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.
Immediately call a POISON CENTER/ doctor.**Disposal:**Dispose of contents/ container to an approved waste disposal
plant.**Carcinogenicity**No component of this product present at levels greater than or equal to 0.1% is identified as a known or
anticipated carcinogen by NTP, IARC, or OSHA.**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula

: ZnSO₄

Chemical nature

: Mixture

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Chemical name	CAS-No.	Concentration
Zinc sulphate	7733-02-0	25.00 - 50.00 %
Water	7732-18-5	50.00 - 70.00 %

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Take off immediately all contaminated clothing.
- Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Call a physician immediately.
- Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink 1 or 2 glasses of water. Call a physician immediately.

Notes to physician

- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam

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	Dry chemical Carbon dioxide (CO2) Water spray
Specific hazards during firefighting	: In case of fire hazardous decomposition products may be produced such as: Sulphur oxides Zinc oxide fumes.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations. Ventilate the area.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe	: Wear personal protective equipment.
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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities	: Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container.
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Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.

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Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: Note: acidic
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: does not ignite
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: Note: No data available

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Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: Note: No data available
Auto-ignition temperature	: Note: No data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 161.45 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Sulphur oxides Zinc oxide fumes.

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Acute toxicity estimate: 1,391 mg/kg Method: Calculation method
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Note: No data available
Eye irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Sensitisation	: Note: No data available
Genotoxicity in vitro	: Note: No data available
Further information Zinc sulphate	: Irritating to eyes and skin.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: Note: No data available
Toxicity to daphnia and other	: Note: No data available

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aquatic invertebrates

Toxicity to algae : Note: No data available

Elimination information (persistence and degradability)

Bioaccumulation : Note: No data available

Mobility : Note: No data available

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecologyAdditional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 3082
	Proper shipping name	: Environmentally hazardous substances, liquid, n.o.s. (Zinc sulphate)
	Class	9
	Packing group	III
	Hazard Labels	9

IATA	UN/ID No.	: UN 3082
	Description of the goods	: Environmentally hazardous substances, liquid, n.o.s.

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		(Zinc sulphate)
Class	:	9
Packaging group	:	III
Hazard Labels	:	9
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Packing instruction (passenger aircraft)	:	Y964
IMDG		
UN/ID No.	:	UN 3082
Description of the goods	:	Environmentally hazardous substances, liquid, n.o.s.
		(ZINC SULPHATE)
Class	:	9
Packaging group	:	III
Hazard Labels	:	9
EmS Number	:	F-A, S-F
Marine pollutant	:	yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

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Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 1000 lbs

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Zinc sulphate 7733-02-0

SARA 311/312 Hazards : Acute Health Hazard

CERCLA Reportable Quantity : 2782 lbs

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California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Zinc sulphate 7733-02-0

New Jersey RTK : Zinc sulphate 7733-02-0

Pennsylvania RTK : Zinc sulphate 7733-02-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group