

Date of issue: 2018/10/01 Date of revision: 2022/11/17

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Zinc sulfide SDS No. : 8803E-2
Relevant identified uses of the substance or mixture and uses advised against Research and Development
Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

Section 2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture Label elements No GHS label element No Signal word

Section 3. Composition/information on ingredients Mixture/Substance selection: Substance Ingredient name:Zinc sulfide Content (%):99(min) Chemical formula:ZnS Chemicals No, Japan:1–572 CAS No.:1314–98–3 MW:97.46 ECNO:215–251–3 Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures IF INHALED Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



IF SWALLOWED	
Rinse mouth.	
Call a POISON CENTER/doctor/physician if you feel unwell.	

Section 5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media
Use appropriate extinguishing media suitable for surrounding facilities.
Unsuitable extinguishing media
Unsuitable extinguishing media data is not available.
Specific hazards arising from the substance or mixture
Containers may explode when heated.
Fire may produce irritating, corrosive and/or toxic gases.
Advice for firefighters
Specific fire-fighting measures
Evacuate non-essential personnel to safe area.
Special protective equipment and precautions for fire-fighters
Wear fire resistant or flame retardant clothing.
Wear protective gloves/protective clothing/eye protection/face protection.
Firefighters should wear self-contained breathing apparatus with full face peace operated
positive pressure mode.
Section 6. Accidental release measures
Personnel precautions, protective equipment and emergency procedures
Ventilate area until material pick up is complete.
Wear proper protective equipment.
Environmental precautions
Prevent spills from entering sewers, watercourses or low areas.
Avoid raising dust.
Methods and materials for containment and cleaning up
Sweep up, place in a bag and hold for waste disposal.
Preventive measures for secondary accident
Collect spillage.
Section 7 Handling and staves
Section 7. Handling and storage Precautions for safe handling
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Preventive measures (Protective measures against fire and explosion)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
smoking.
(Exhaust/ventilator)
Exhaust/ventilator should be available.
(Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Wear protective gloves, protective clothing or face protection.
Wear protective gloves, protective clothing or face protection. When using do not eat, drink or smoke.
Wear protective gloves, protective clothing or face protection. When using do not eat, drink or smoke. Any incompatibilities
Wear protective gloves, protective clothing or face protection. When using do not eat, drink or smoke. Any incompatibilities See ″10.Stability and Reactivity″
Wear protective gloves, protective clothing or face protection. When using do not eat, drink or smoke. Any incompatibilities



Conditions for safe storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight. Keep under lock and key. Container and packaging materials for safe handling Glass Polyethylene

Section 8. Exposure controls/personal protection Control parameters Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available. Washing facilities should be available. Individual protection measures Respiratory protection Wear respiratory protection. Hand protection Wear protective gloves. Eye protection Wear eye/face protection.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Crystals or powder

Color: White to white-yellow

Odor data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: (Zinc sulfide)(sublimation) 1180°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: None

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 4.0g/cm³

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.



Section 10. Stabilit	y and Reactivity
Reactivity	
Not ava	ilable.
Chemical stabilit	ty
Stable under normal storage/handling conditions. Possibility of hazardous reactions	inder normal storage/handling conditions.
	zardous reactions
Reacts	with strong acids. This produces toxic hydrogen sulfide.(ICSC 1627)
Conditions to av	/oid
Contact	with incompatible materials.
Contact	: with fire source.
Incompatible ma	terials
Strong a	acids
Hazardous deco	mposition products
Hydroge	en sulfide
Section 11. Toxico	logical Information
Information on t	oxicological effects
Acute toxicity d	ata is not available.
Irritant propertie	28
Skin corrosio	n/irritation data is not available.
Serious eye c	lamage/irritation data is not available.
Allergenic and s	ensitizing effects data is not available.
Mutagenic effec	ts data is not available.
Carcinogenic eff	fects data is not available.
Reproductive to	xicity data is not available.
Specific target o	organ toxicity (STOT)
STOT-single	exposure data is not available.
STOT-repeat	ed exposure data is not available.
Aspiration hazar	d data is not available.
Information on o	ther hazards
Мау сал	use lung disorders by massive inhalation of powdered substance.
−e.g. fib	rosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung
	n, interstitial lung disease, pneumothorax
Section 12. Ecolog	ical Information
Toxicity	
Toxicity	data is not available.
Water solubility	
(Zinc su	lfide)

(Zinc sulfide) none (ICSC, 2005)

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.



Section 13. Disposal considerations Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Dispose of contents/container in accordance with local/national regulation.

Section 14. Transport Information UN No. or ID No.: Not applicable Not applicable to IMDG Code Not applicable to IATA Dangerous Goods Regulations Environmental hazards MARPOL Annex III – Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Zinc sulfide

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2021).