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Safety Data Sheet acc. to OSHA HCS

Printing date: 03/26/2024

Version 1

Reviewed on: 03/26/2024

	on and a second s
· Product identi	ifier
· Product name	e: LP-V01-20-00
	Trade names:
	ZnS/11P
	ntification: Zinc sulphide
CAS Number:	
1314-98-3	
• EC number: 215-251-3	
	tration number: Zinc sulphide: 01-2119475779-15-0004
	f the substance / the preparation:
	is used for the production of inorganic phosphors.
	against Do not use for private purposes (household).
· Details of the	supplier of the safety data sheet
· Manufacturer/	/Supplier:
	k Breitungen GmbH
Lange Sömme	
D-98597 Breitu Tel.: +49-(0)36	
Telefax: +49-(0)36))36848-8490
	uchtstoffwerk.com
	leuchtstoffwerk.com
DE: +49-(0)361	1 730 730 24h emergency number GGIZ
CHEMTREC -	USA / CA (24-h emergency number): +1 800 424 9300
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Product name: LP-V01-20-00 Trade names: ZnS/11P

· vPvB: Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 1314-98-3 zinc sulphide
- · Identification number(s)
- · EC number: 215-251-3

4 First-aid measures

· Description of first aid measures



· General information: Take off immediately all contaminated clothing and wash it before reuse.

- Seek medical treatment in case of complaints.
- After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Protect unharmed eye.

• After swallowing:

If swallowed, rinse mouth with water (only if the person is conscious).

- Drink plenty of water and provide fresh air.
- Do not induce vomiting.
- Call a doctor immediately.
- · Information for doctor: Treat symptomatically.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: The product is not flammable. Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture In case of fire, the following can be released: Sulphur dioxide (SO2)
 - Sulfur oxides (SOx)
- Advice for firefighters
- · Protective equipment:

Wear fully protective equipment. Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device.

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• Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid contact with the eyes and skin. Avoid formation of dust. Use respiratory protective device against the effects of fumes/dust/aerosol.	
Ensure adequate ventilation	
 Environmental precautions: Avoid release to the environment. Methods and material for containment and cleaning up: 	
Avoid formation of dust.	
Pick up mechanically.	
Send for recovery or disposal in suitable receptacles.	
Dispose of the collected material according to regulations.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
· PAC-1:	
1314-98-3 zinc sulphide	8.9 mg/m ³
· PAC-2:	
1314-98-3 zinc sulphide	99 mg/m ³
PAC-3:	
1314-98-3 zinc sulphide	590 mg/m ³

7 Handling and storage

· Handling:

Precautions for safe handling

Wear protective clothing.

Avoid contact with the eyes and skin.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Provide suction extractors if dust is formed.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure good ventilation/exhaustion at the workplace.

The usual precautionary measures for handling chemicals should be followed.

· Information about protection against explosions and fires: The product is not flammable.

· Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by storerooms and receptacles:

Store receptacle in a well ventilated area.

Keep receptacle tightly sealed.

Use only receptacles specifically permitted for this substance/product.

- · Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions:

Protect from heat and direct sunlight. Protect from humidity and water. Store in a cool place.

Store in dry conditions.

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Protect from frost.

Storage class: 13 - TRGS 510

• Specific end use(s) see section 1.2

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

· PNECs

1314-98-3	zinc	sulphide

•	
PNEC freshwater	20.6 µg/l (-)
PNEC marine water	6.1 µg/l (-)
PNEC STP	52 µg/l (-)
PNEC soil	106.8 mg/kg dw (-)
PNEC sediment (freshwater)	235.6 mg/kg dw (-)
PNEC sediment (marine water)	113 mg/kg dw (-)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

The usual precautionary measures for handling chemicals should be followed.

Immediately remove all soiled and contaminated clothing.

Breathing equipment:



Use respiratory protective device when working with dust.

Use suitable respiratory protective device when high concentrations are present.

Recommended filter device for short term use:

Filter P2

Filter FFP2

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

Value for the permeation: Level \geq 480 min. (EN 374)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Not suitable are gloves made of the following materials: Strong gloves

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(Contd. of page 4) · Eye protection: Safety glasses · Body protection: Protective work clothing 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Powder Yellowish Color: White · Odor: Odorless · Odor threshold: Not applicable 7 · pH-value: · Melting point/Melting range: >800 °C (>1,472 °F) · Boiling point/Boiling range: Undetermined. · Flash point: Not applicable · Flammability (solid, gaseous): Product is not flammable. · Decomposition temperature: >500 °C (>932 °F) · Ignition temperature: Not applicable · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not applicable Not applicable Upper: Oxidizing properties Not determined · Vapor pressure: Not applicable. · Density at 20 °C (68 °F): 4.13 g/cm3 (34.46485 lbs/gal) · Bulk density: 1,400 kg/m³ · Relative densitv Not determined. Not applicable. · Vapor density · Evaporation rate Not applicable. · Solubility in / Miscibility with Water at 25 °C (77 °F): <0.01 g/l Insoluble. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not applicable. **Kinematic:** Not applicable. Granulometry (Particle size distribution): 0.8 µm (d50) · Other information No further relevant information available.

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10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: Thermal decomposition starts at >500 °C.

Possibility of hazardous reactions

Reacts with acids.

Reacts with acids forming hydrogen sulfide. Thermal decomposition starts at >500 °C.

Conditions to evold Keen even from of

- Conditions to avoid Keep away from acids.
- · Incompatible materials: Acid.
- Hazardous decomposition products: In case of fire, the following can be released: Sulfur dioxide Sulfur oxides (SOx) Hydrogen sulphide is formed in contact with acids.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

1314-98-3 zinc sulphide

Oral LD50 >2,000 mg/kg (-)

Inhalative LC50/4 h >5.7 mg/l (-)

Specific symptoms in biological assay:

on the skin:

No irritant effect.

Based on available data, the classification criteria are not met.

- · Other information (about experimental toxicology): Warning, substance not yet fully tested
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer) Substance is not listed.

- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Based on available data the classification criteria are not met.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · AOX-indication: The product does not contain organically bound halogens (AOX-free).
- · General notes: Not hazardous for water.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

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• Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Disposal must be made according to official regulations.

Depending on the intended use by the customer, the waste code number must be checked with the responsible disposal company and adjusted if necessary.

· Uncleaned packagings:

Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Void
 UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA 	Void
· Transport hazard class(es)	
 DOT, ADR/RID/ADN, ADN, IMDG, IATA Class 	Void
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	Void
· Environmental hazards:	None
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex II on MARPOL73/78 and the IBC Code 	of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

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

· Sara

· Section 302 (extremely hazardous substances): Substance is not listed.

- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act):

zinc sulphide

· Hazardous Air Pollutants Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer: Substance is not listed.

· Chemicals known to cause reproductive toxicity for females: Substance is not listed.

• Chemicals known to cause reproductive toxicity for males: Substance is not listed.

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Product name: LP-V01-20-00 Trade names: ZnS/11P		
 New Jersey Right-to-Know New Jersey Special Hazard Pennsylvania Right-to-Know 	e developmental toxicity: Substance v List: Substance is not listed. dous Substance List: Substance is no ow List: Substance is not listed. ardous Substance List: Substance is	ot listed.
• • •	ction Agency) - Integrated Risk Info	rmation System (IRIS)
1314-98-3 zinc sulphide		D, I, II
NIOSH-Ca (National Institu Canadian substance listing Canadian Domestic Substa Canadian Non-Domestic S Canadian Ingredient Disclo Canadian Ingredient Disclo Philippines Inventory of Cl Chinese Chemical Invento	/orkplace Concentration) Substance te for Occupational Safety and Heal	th) Substance is not listed. not listed. bt listed. listed. Substance is listed. Substance is listed.
Korean Existing Chemical		
1314-98-3 zinc sulphide		KE-35583
· New Zealand Inventory of	Scheduling of Drugs and Poisons Su Chemicals Substance is listed.	ubstance is not listed.
Existing and New Chemica	al List (Japan)	
1314-98-3 zinc sulphide	Al List (Japan)	1-572
 1314-98-3 zinc sulphide National regulations: OSH, Chemical safety assessme 16 Other information "Although LEUCHTSTOFFW accurate information herein, representations regarding the for any loss, damage, injury on the information by any pe 	A Hazard Communication Standard ent: A Chemical Safety Assessment ha /ERK BREITUNGEN GMBH has attem LEUCHTSTOFFWERK BREITUNGEN e accuracy or completeness of the info of any kind which may result from or an rson. Furthermore existing laws and di	ns been carried out. Inpted to provide current and N GMBH makes no formation and assumes no liability rise out of the use of or reliance
 1314-98-3 zinc sulphide National regulations: OSH, Chemical safety assessme Chemical safety assessme 16 Other information "Although LEUCHTSTOFFW accurate information herein, representations regarding the for any loss, damage, injury on the information by any pe the receiver of the product of Department issuing SDS: Health, Safety, Environment Chemical Management Contact: Date of preparation / last representation / last representa	A Hazard Communication Standard ent: A Chemical Safety Assessment hat /ERK BREITUNGEN GMBH has attem LEUCHTSTOFFWERK BREITUNGEN e accuracy or completeness of the info of any kind which may result from or an rson. Furthermore existing laws and di n his own responsibility". and Quality Management evision 03/26/2024	ns been carried out. Inpted to provide current and N GMBH makes no formation and assumes no liability rise out of the use of or reliance
 1314-98-3 zinc sulphide National regulations: OSH, Chemical safety assessme Chemical safety assessme Chemical safety assessme Chemical safety assessme I6 Other information "Although LEUCHTSTOFFW accurate information herein, representations regarding the for any loss, damage, injury on the information by any pe the receiver of the product of Department issuing SDS: Health, Safety, Environment Chemical Management Contact: Date of preparation / last reference of the International Carriage of Dange IMDG: International Maritime Code DOT: US Department of Transport ATA: International Air Transport ASE Chemical Abstracts Service (PNEC: Predicted No-Effect Concer LC50: Lethal concentration, 50 perc LD50: Lethal dose, 50 percent 	A Hazard Communication Standard ent: A Chemical Safety Assessment has /ERK BREITUNGEN GMBH has attem LEUCHTSTOFFWERK BREITUNGEN e accuracy or completeness of the info of any kind which may result from or al rson. Furthermore existing laws and di n his own responsibility". and Quality Management evision 03/26/2024 ms: ernational des marchandises dangereuses part rous Goods by Road) for Dangerous Goods ation ssociation isting Commercial Chemical Substances division of the American Chemical Society) tration (REACH) cent	as been carried out. The provide current and N GMBH makes no formation and assumes no liability rise out of the use of or reliance firections have to be respected by
 1314-98-3 zinc sulphide National regulations: OSH, Chemical safety assessme Id Other information "Although LEUCHTSTOFFW accurate information herein, representations regarding the for any loss, damage, injury on the information by any pe the receiver of the product of Department issuing SDS: Health, Safety, Environment Chemical Management Contact: Date of preparation / last reference Abbreviations and acronyr ADR: Accord relatif au transport int the International Carriage of Dange IMDG: International Maritime Code DOT: US Department of Transport A EINECS: European Inventory of Ex CAS: Chemical Abstracts Service (PNEC: Predicted No-Effect Concer LC50: Lethal concentration, 50 percenter 	A Hazard Communication Standard ent: A Chemical Safety Assessment has /ERK BREITUNGEN GMBH has attem LEUCHTSTOFFWERK BREITUNGEN e accuracy or completeness of the info of any kind which may result from or an rson. Furthermore existing laws and di n his own responsibility". and Quality Management evision 03/26/2024 ms: ernational des marchandises dangereuses par nous Goods by Road) for Dangerous Goods ation esociation isting Commercial Chemical Substances division of the American Chemical Society) tration (REACH) cent and Toxic accumulative bational Safety	as been carried out. hpted to provide current and N GMBH makes no formation and assumes no liability rise out of the use of or reliance irections have to be respected by

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PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

* Data compared to the previous version altered.

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