



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No. : Z 10825
Product Name : ZINC SULPHIDE

Manufacturer / supplier identification
Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 1314-98-3 EC Index No. : -----
Molar mass : -----
Molecular Formula : SZn EC –No. : 215-251-3

3. HAZARDS IDENTIFICATION

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/ EEC and laid down in the legislation of the country concerned is not required.

4. FIRST AID MEASURES

After inhalation (particles, dusts) : Fresh air. After skin contact : Wash off with water.
After swallowing (particles, dusts) : Make victim drink plenty of water. Induce vomiting. Consult doctor if feeling unwell.
After eye contact : Rinse out with plenty of water.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media: In adaption to materials stored in the immediate neighbourhood.
Special risks: Non-combustible. Ambient fire may liberate hazardous vapours . Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire : Hydrogen sulfide , sulfur oxides.
Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Procedure for cleaning /absorption: Take up dry. Forward for disposal. Clean up effected area. Avoid generation of dusts.



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7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed . Dry .

Storage temperature : No restrictions.

8. EXPOSURE CONTROLS/PERSONAL PERSONAL PROTECTIVE EQUIPMENT PROTECTION

Respiratory protection : Required when dusts are generated .

Eye protection : Required

Hand protection : Not required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Granules
Colour	:	Yellowish
Odour	:	Odourless
pH value at 50 g/l H ₂ O (20°C)	:	5.0-5.5
Melting temperature	:	Not available
Boiling temperature	:	Not available
Sublimation point	:	1185 ° C
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available
Relative vapour density	:	Not available
Density (20°C)	:	4.01 g/cm ³
Solubility in water (20°C)	:	Almost insoluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available.

Substance to be avoided : Strong acids(Formation of hydrogen sulfide).

Hazardous decomposition products : No information available.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat): > 2000 mg/kg. LD₅₀ (dermal, rat) :> 2000 mg/kg.

Further toxicological information :

The following applies to zinc compounds in general : only slightly absorbable via the gastrointestinal tract. Adstringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities with strong acids formation of : hydrogen sulfide. The following applies to hydrogen sulfide : odour perception limit 0.025 –8 ppm . After inhalation : < 100 ppm: rhinitis, photophobia , mucosal irritations, coughing, irritations after contact with the eyes . >500 ppm: headache, dizziness, ataxia (impaired locomotor coordination), cardiovascular disorders, agitation, spasms. Inhalation may lead to the formation of oedemas in the respiratory tract . > 1000 ppm : respiratory arrest within seconds to minutes. Late sequelae : the following organs may be damaged after uptake : lungs, heart, eyes.

Further data : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Quantitative data on the ecological effect of this product are not available.

With strong acids Formation of : hydrogen sulphide.

The following applies to H₂S : biological effects :fish : toxic as from 0.5mg/l:

sulfide has a harmful on plankton and fish ; hazard for drinking water !

Further ecologic data : No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL METHOD

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official Regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled



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14. TRANSPORT INFORMATION

Not subject to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : -----

R- Phrases : -----

S-phrases : -----

Water pollution class : 0 (generally non polluting substance)

16. OTHER INFORMATION

The information contained here in is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
