# **SAFETY DATA SHEET**

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name:

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

BZn<sup>™</sup> S

1.3 Details of the supplier of the safety data sheet Company: Bisor Corporation 5358, Huyi Road, Shanghai,201806,P.R. CHINA

Telephone:	+86 21 6183 4121
Fax:	+86 21 5186 1853
Email:	info@bisorcare.com
Web:	www.bisorcare.com

2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Acute aquatic toxicity, Category 1, H400 Chronic aquatic toxicity, Category 1, H410 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC) N; R50/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



Hazard statements H410 Very toxic to aquatic life with long lasting effects.



# Precautionary statements P273 Avoid release to the environment.

Reduced labelling (≤125 ml) Hazard pictograms



Index-No.	030-013-00-7	
Labelling (67/548 Symbol(s)	8/EEC or 1999/45/EC) N	Dangerous for the environment
R-phrase(s)	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	60-61	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
EC-No.	215-222-5	EC Label
Reduced labo Symbol(s)	elling (≤125 ml) N	Dangerous for the environment
2.3 Other hazards None		

3. Composition/information on ingredients

- CAS-Nr. Substance identification acc. to EC directive
- 1314-13-2 Zinc Oxide
- 7631-86-9 Silica

# 4. First aid measures

known.

4.1 Description of first aid measures After inhalation: fresh air.



After skin contact: wash off with plenty of water. Remove contaminate clothing.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed irritant effects

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.

- 4.3 Indication of immediate medical attention and special treatment needed No information available.
  - 5. Fire-fighting measures
    5.1 Extinguishing media
    Suitable extinguishing media
    Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media* For this substance/mixture no limitations of extinguishing agents are given.

- 5.2 Special hazards arising from the substance or mixture Not combustible.Ambient fire may liberate hazardous vapours.
- 5.3 Advice for firefighters Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.

*Further information* Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions Do not empty into drains.



- 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills.Observe possible material restrictions (see sections 7.2 and 10.5).Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- 6.4 Reference to other sections Indications about waste treatment see section 13.

# 7. Handling and storage

- 7.1 Precautions for safe handling Observe label precautions.
- 7.2 Conditions for safe storage, including any incompatibilities Tightly closed. Dry.

Storage temperature: no restrictions.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# 8. Exposure controls/personal protection

- 8.1 Control parameters
- 8.2 Exposure controls

Engineering measures Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

*Hygiene measures* Change contaminated clothing. Wash hands after working with substance.

Eye/face protection Safety glasses



Hand protection full contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
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The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

### Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

*Environmental exposure controls* Do not empty into drains.

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	power
Colour	white
Odour Threshold	No information available.
Boiling point/boiling range	not applicable, (sublimed)
Flash point	does not flash
Evaporation rate	No information available.



Flammability (solid, gas)	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.
9.2 Other data	
Ignition temperature	not combustible
Bulk density	ca.200 - 700 kg/m³

# 10. Stability and reactivity

# 10.1 Reactivity

Dangerous reactions are not expected handling the product according to its intented use.

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions Violent reactions possible with: hydrogen peroxide, magnesium

- 10.4 Conditions to avoid no information available
- 10.5 Incompatible materials no information available
- 10.6 Hazardous decomposition products no information available



11. Toxicological information

11.1 Information on toxicological effects *Acute oral toxicity* LD50 rat Dose: > 5.000 mg/kg (IUCLID)

LDLO human Dose: 500 mg/kg (RTECS)

Acute inhalation toxicity LC0 rat Dose: >= 5 mg/m<sup>3</sup>, 3 h (Lit.)

11.2 Further information Further 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.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

### 12. Ecological information

12.1 Toxicity Toxicity to fish LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 1,1 mg/l Exposure time: 96 h (ECOTOX Database) Toxicity to daphnia and other aquatic invertebrates. **EC50** Species: Daphnia magna (Water flea) Dose: > 1.000 mg/l Exposure time: 48 h (ECOTOX Database) Toxicity to algae IC50 Species: Pseudokirchneriella subcapitata (green algae) Dose: 0,17 mg/l Exposure time: 72 h (External MSDS)

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- 12.2 Persistence and degradability No information available.
- 12.3 Bioaccumulative potential No information available.
- 12.4 Mobility in soil No information available.
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Other adverse effects

Additional ecological information Do not allow to run into surface waters, wastewater, or soil.

### 13. Disposal considerations

*Waste treatment methods* See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# 14. Transport information

ADR/RID

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III IATA UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III IMDG UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE), 9, III EmS F-A S-F Segregation Group: 0007 Heavy Metals and their salts (incl. their organometallic compounds)

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture *EU regulations* Major Accident Hazard Legislation 96/82/EC Dangerous for the environment 9a Quantity 1: 100 t Quantity 2: 200 t



Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
National legislation Storage class VCI	10 - 13 Other liquids and solids

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

# 16. Other information

### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bisor Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.bisorcare.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

