



SAFETY DATA SHEET
50% ZINC OXIDE DISPERSION

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Issued: 23/05/02

Revision No: 2

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

Product name: 50% ZINC OXIDE DISPERSION

CAS number: 1314-13-2 (active)

Product code: fZNOX/50

Use / description of product: For use as an activator/filler in the processing of rubber

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: TRANSITION METAL OXIDE 30-60%
[N] R50/53;

3. HAZARDS IDENTIFICATION

Main hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards: No major hazards.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Prolonged contact may sensitise skin by defatting.

Eye contact: Slight irritant (including mechanical irritation)

Ingestion: Large oral doses may cause constipation, diarrhoea, nausea, fever and stomach cramps

Inhalation: If this dispersion is strongly heated it may release fumes which are irritating to the respiratory tract and may be harmful due to the nature of the active ingredient

4. FIRST AID MEASURES (ACTION)

Skin contact: If a person feels unwell after coming into contact with this dispersion then seek medical advice.

Eye contact: No major hazards. Irrigate with plenty of water. Seek medical advice

Ingestion: Wash out mouth with water and give 200-300ml warm water to drink. Seek medical attention immediately.

Inhalation: Remove patient to fresh air. Treat symptomatically and seek medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water. Foam Carbon dioxide. Do not use water jet

Exposure hazards: At very high temperatures harmful fumes may be formed

Protection of fire-fighters: Respiratory Protective Equipment (RPE) must be worn.

[cont...]

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin/eyes. Do not inhale mists. Avoid ingestion.

Environmental precautions: Prevent contamination of drains/watercourses/vegetation. Advise police.

Clean-up procedures: Adsorb onto sand/earth/similar adsorbent material. Once clear, wash the spillage area clean with water and detergent.

7. HANDLING AND STORAGE

Handling requirements: Avoid contact with skin/eyes. Do not inhale mists. Avoid ingestion.

Storage conditions: Store in closed containers, well protected from frost. Stir well before use.

Suitable packaging: Most packagaing suitable, avoid mild-steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Wear suitable respiratory protective equipment to prevent overexposure to mist.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Wear suitable protective clothing. Water-repellent barrier cream.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Flowable aqueous dispersion.

Colour: White

Odour: Negligible

Viscosity: 200 - 1000 cps.

Oxidising: No data

Evaporation rate: No data

Solubility in water: Miscible

Also soluble in: No data.

Boiling point/range°C: 100

Melting point/range°C: 0

Flammability limits %: lower: No data

upper: No data

Flash point°C: No data

Part.coeff. n-octanol/water: No data

Autoflammability°C: No data

Vapour pressure: No data

Relative density: 1.63 - 1.73

pH: 8.50 - 11.00

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Extremes of temperature. Protect from frost.

Materials to avoid: Strong acids. Strong bases.

Haz. decomp. products: The residue of this emulsion may liberate toxic fumes when strongly heated.

11. TOXICOLOGICAL INFORMATION

Effects of exposure Slight irritant to eyes

Routes of exposure Prolonged skin contact may cause allergy by defatting

12. ECOLOGICAL INFORMATION

Mobility: Miscible with water.

Persistence and degradability: No data.

Bioaccumulative potential: No data.

Other adverse effects: No data.

13. DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with the local or national legislation. Mix or dissolve with a combustible material and burn in a chemical incinerator equipped with afterburners and scrubbers.

Disposal of packaging Incinerate residues only in officially approved incinerator. Dispose of empty containers only on dumps designated for special waste or at an incineration plant for industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

IMDG / IMO

IATA / ICAO

15. REGULATORY INFORMATION

Hazard symbols: Dangerous for the environment.



Risk phrases: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S25: Avoid contact with eyes.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Additional information: For use as an activator/filler in the processing of rubber

Risk phrases used in s.2: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Aquaspersions Limited shall not be held liable for any

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damage resulting from handling or from contact with the above product.