

SAFETY DATA SHEET

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ZINC SULPHATE

Revision 1

Revision date 5-May-2010

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name ZINC SULPHATE

Company Norkem Limited

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number

01270 502891 UK Transport only

Product code Z07-Z08-Z11

2 HAZARDS IDENTIFICATION.

Main hazards Harmful if swallowed. Risk of serious damage to eyes. Very toxic to aquatic organisms,

may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

Conc. CAS EINECS Symbols/Risk phrases

Zinc sulphate (hydrous) (mono-, hexa- and hepta 90-100% 7446-19-7 Xn; R22 Xi; R41 N; R50/53

hydrate)

4. FIRST AID MEASURES

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes

holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Skin contact May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of

soap and water. Remove contaminated clothing. Seek medical attention if irritation or

symptoms persist.

Ingestion Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating

to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this

container or label.

Inhalation Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness

and headache. Move the exposed person to fresh air. Seek medical attention.

5. FIRE FIGHTING MEASURES

Fire hazards Burning produces irritating, toxic and obnoxious fumes.

Protective equipment Self-contained breathing apparatus. Wear protective clothing.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear suitable protective equipment. Avoid generating and breathing dust. Ensure

adequate ventilation of the working area.

Environmental precautions Do not allow product to enter drains. Prevent further spillage if safe.

Clean up methods Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

Avoid generating and breathing dust. Adopt best Manual Handling considerations when

handling, carrying and dispensing.

Storage Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures Ensure adequate ventilation of the working area.

Occupational exposure COSHH - Due consideration should be given to your control systems and the need for

assessment.

Protective equipment

controls

Wear chemical protective clothing. Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective equipment to chemicals should

be ascertained with the respective supplier.

Respiratory protection Self-contained breathing apparatus. Wear protective clothing.

Hand protection Chemical resistant gloves (PVC)

Eye protection Approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

DescriptionCrystals.ColourWhite.OdourOdourless.

pH 4-5.2 @ 50 g/l H2O (20 C)

Boiling point 280°C

Relative density 3.2 g/cm3 (20 C) Bulk: 500 kg/m3 Water solubility soluble in water. 350 g/l @ 20 C.

Melting point 700°C

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to avoid Heat.

Hazardous decomposition

Sulphur oxides.

products

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11. TOXICOLOGICAL INFORMATION

Toxicological information

ZINC SULPHATE Oral Mouse LD50 = 245mg/kg

Zinc sulphate (hydrous) (mono-, hexa- and hepta

hydrate)

Oral Mouse LD50 = 2200 mg/kg

Oral Rat LD50 = 2150 mg/kg

Eye contact Irritating to eyes.

Skin contact Irritating to skin.

Ingestion Abdominal pain, nausea, vomiting. May cause irritation to skin, eyes and mucous

membranes.

Inhalation Inhalation may cause nausea and vomiting. Coughing, difficulty in breathing.

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN 3077 Packing group III
Class 9 Hazard ID 90

Proper Shipping ENVIRONMENTALLY

Name HAZARDOUS SUBSTANCE, SOLID, N.O.S, (Zinc Sulphate).

IMDG

UN 3077 Packing group III Class 9 Marine pollutant .

EmS Code F-A S-F

IATA

UN 3077 Packing group III
Class 9 Subsidiary risk -

Packing Instruction 911 Maximum quantity 400 kg

(Cargo)

Packing Instruction 911 Maximum quantity 400 kg

(Passenger)

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15. REGULATORY INFORMATION

Labelling The product is classified in accordance with 67/548/EEC.

Symbols Xn - Harmful; N - Dangerous for the environment



R22 - Harmful if swallowed. Risk phrases

R41 - Risk of serious damage to eyes.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases S2 - Keep out of the reach of children.

S22 - Do not breathe dust.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S60 - This material and its container must be disposed of as hazardous waste.

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

16. OTHER INFORMATION

Text of risk phrases in

R22 - Harmful if swallowed.

Section 3.

R41 - Risk of serious damage to eyes.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the

aguatic environment.

General information

The following information is provided to conform with article 13 of the EC Directive on

Packaging and Packaging Waste 94/62/EC:

* Wherever possible we use returnable packaging and pallets. Details of these are on

our Sales Contracts

* For any non-returnable packaging the cost of disposal is at your expense, but we do

have a list of reprocessors available

* In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customers expense. Please ask for details with

your specific requirements

Any products supplied in returnable packaging is clearly marked to this effect.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other

Revision This document differs from the previous version in the following areas:

15 - risk phrases.