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SAFETY DATA SHEET

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Powder

1. Identification of subtances and manufacturer

Product Name Zinc ZINC DUST Trade name 7440-66-6 CAS No. Industrial Recommended use Zn Chemical Formula

Phyisical form of product MEGACHEM LTD Company details

11, Tuas Link 1, Singapore 638588

Emergency contact details Please contact (+65 6933 9999)

2. Hazard Identification

Classification of the substances or mixture Acute Aquatic Hazard - catagory 1

Long-Term Aquatic Hazard - Catagory 1

2.2 GHS Label element

Hazard pictogram

Signal word

Hazard statements Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention Avoid release to the environment

Response Collect spillage Storage Not Applicable

Disposal national and international regulation

3. Composition/Information on ingredients

Synonyms Zinc, Zinc Dust

Formula

Molecural weight 65.39 g/mol CAS-No 7440 - 66 - 6 EINECS No. 67/548/EEC

4. First aid measures

General Advice Consult a physician. Show this SDS to the doctor.

In case of contact, immediately flush skin with plenty of water. Remove In case of skin contact

contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

If inhaled, remove to fresh air. If breathing is difficult, give Oxygen. If not If inhaled

breathing, give artificial respiration. Get medical attention.

In case of eye contact Wash with water and induce vomiting by touching throat inside. Rinse and

flush mouth and throat with clean water.

Do not induce vomiting unless directed to do so by medical personnel. Never If swallowed

give anything by mouth to an unconscious person. If large quantities of this

material are swallowed, call a physician immediately

5. Fire-fighting measures - emergency

* Suitable extinguishing media

: Dry Chemical, CO2 or Sand

* General hazard

No specific hazard. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented

from being discharged to any waterway, sewer or drain.

* Unusual fire/explosion hazards

Precautions for fire-fighters

May present an explosion hazard when material is suspended in air in confined areas or quipment and subjected to spark, heat or flame.

Fire fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

6. Accidental release measures

6.1 Personal precautions

Use respirator protective. Use vacuum or absorbent if available. Avoid

generation and spreading of dust. If wet Zinc dust are transferred in an open container and placed

on a well ventilated place.

up If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal. Avoid

creating dusty conditions and prevent wind dispersal.

Avoid dispersal of spilled material and run-off and contact with soil,

: waterways, drains and sewers.

6.2 Method for containment and cleaning up

6.3 Environmental precautions

7. Handling and storage

7.1 General

Keep away from heat, sparks and open flame. Container must be kept tightly closed. Do not use water because of hydrogen gas evolution. Keep away from moisture as react to form oxide. Avoid contact with halogen

substituted hydrocarbon or alkaline metal hydride. This product will oxidise slowly if exposed to air, and fire might occur because of exothermic reaction.

7.2 Precautions in handling & storage

Store in warehouse, avoid contact with flame and water. Keep below 40°C at a cool, dry and ventilated storage and closed containers/pails.

8. Exposure control/personal protection

8,1 Control parameters

8,2 Exposure controls
Skin protection

Components with workplace control parameters

Personal protective equipments for the body should be selected based on the task being performed and the risks involved and should be approved by

as specialist before handling this product.

Safety eyewear complying with an approved standard should be used when Eye Protection : a risk assessment indicates this is necessary to avoid exposure to liquid

splashes, mists or dusts.

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Respiratory protection : Respirators selection must be based on known or anticipated exposure

levels, the hazards of the product and the safe working limits of the selected $% \left\{ 1,2,\ldots,n\right\}$

respirator.

Use process enclosures, local exhaust ventilation, or other engineering

controls to keep airborne levels below recommended exposure limits. If user

operations generate dust, fume or mist, use ventilation to keep exposure to

air borne contaminants below the exposure limit.

Hygiene measures Eating, drinking and smoking should be prohibited in area where this

material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

9. 9. Physical and chemical properties

Occupational exposure controls

Physical state : Solid powder
Appearance : Grey-white powder
Odour/taste : Odourless

Boiling point : 907°C
Melting point : 419,5°C

Specific gravity : 7.1 gm/cm3 at 20ºC Flash point : Data not available

10. Stability and reactivity

10,1 Hazardous reactions : Stable product.

10,2 Incompatible materials and conditions to avoid

Acids, Strong bases, chlorides, Fluorine, Nitrates, Carbon disulfide. Reactive with oxidizing agents, acids, Slightly reactive with alkalis. Use explosion proof electrical equipments. Keep area clean and tidy. Avoid producing air borne dust when handling and avoid all possible sources of ignition. Keep container

. dry.

11. Toxicological information

11,1 Rat dermal LD50 : >2000mg/Kg
Rat inhalation LC50 (4 hrs) : >5700 mg/m3

 Rat oral LD50 (mg/kg)
 : >2000 mg/kg

 Human oral LDLo
 : 500 mg/kg

 Mouse oral LD50
 : 7950 mg/kg

Carcinogenicity No known significant effects or critical hazards Classified A4 (No classifiable

for human or animal) by ACGIH [Zinc Oxide]

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Potential health effects

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion : May be harmful if swallowed.

Skin : May be harmful if absorbed through skin. May cause skin irritation.

Eyes : May cause eye irritation.

12. Ecological information

Ecological effects information . Prevent entry to sewers, soils and natural waters.

Hazards to fish : No information

Accumulated toxicity : No information

13. Disposal considerations

13,1 Disposal Waste must be disposed of in accordance with federal, state and local

environmental control regulations.

possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewer. Disposal of this product, solution and any byproduct should at all times comply with requirement of environmental

product should at all times comply with requirement of environmental protect ion and waste disposal legislation and any regional local authority requirements. This product is recyclable. Consideration of disposal via this

The generation of waste should be avoided or minimized where ever

route should be given.

14. Transport information

Keep away from water and avoid bag's tear as the material is slightly 14,1 General: hygroscopic.

Adjust temperature below 40°C during transportation and loading/unloading.

14,2 Labeling ADR / RID class



UN No : 3077

IMDG Class : Not Regulated IATA / DGR Class : Not Regulated

14,3 Transport classification: Not classified as dangerous for transport purposes. IMCO Code class 4.1,

4.2,4.3.

RID/ADR – Zinc Dust is not classified as dangerous goods.

This includes: Road, rail, sea and air transport.

15. Regulatory information

EEC (EINECS) No. : 67/548/EEC

Pictogram Label

R 50/53 – very toxic to aquatic life, may cause long lasting harmful effects to Risk phases

aquatic life

Safety phrases : S60 - This material must be disposed of as hazardous waste

S61- Avoid release to the environment.

16. Other information

Product information Registry Toxic number (RTECS/NIOSH)

R50 corresponds to H400 with hazard statement as "very toxic to aquatic

Risk Phrases life"

R53 corresponds to H413 with hazard statement as "may cause long lasting

harmful effects to aquatic life"

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