SAFETY DATA SHEET (SDS)
ZINC DUST (Stabilized)

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer & Supplier: NUMINOR CHEMICAL INDUSTRIES LTD.

Address: P. O. BOX 92, MAALOT 24952, ISRAEL.

Tel: + 972-4-9978220
Fax: + 972-4-9976062
E-Mail: zinc@numinor.com
Web Site: www.numinor.com
Emergency Contact: Mr. Nir Baram, +972 54 587 3131
Product Name: Zinc Dust (stabilized):

Formula: Zn
Synonyms: Zinc Powder
Primary Use: Zinc and zinc chemicals production, paints.

SECTION 2 - HAZARDS IDENTIFICATION

Classification according to Regulation (EC) 1272/2008 (GHS-CLP)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS Pictogram:

Signal Word: WARNING

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

Precautionary Statements:
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.
SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Zn  
Molecular Weight: 65.39 g/mol  
Appearance & Odor: Solid powder (fine), Dark Silver/grey powder, odorless.  
CAS-No: 74406-66-6  
EC-No.: 231-175-3  
Index-No.: 030-002-00-7  
Classification: Aquatic Acute 1; Aquatic Chronic 1; H410

SECTION 4 – FIRST AID MEASURES

Effects and symptoms: Chills, fever, nausea, vomiting, coughing, weakness and headaches, skin irritation.

First aid  
- Skin contact: Wash immediately with plenty of water and soap.  
- Inhalation: Remove victim to fresh air. Clean nasal cavity with water. Give oxygen if breathing difficulty. Seek medical attention. If feeling unwell, immediately seek medical attention.  
- Eye contact: Rinse immediately with clean water for 15 minutes. If feeling unwell, immediately seek medical attention.  
- Ingestion: Immediately rinse mouth with water. Do not induce vomiting. Give large quantities of water or milk to drink. If feeling unwell, immediately seek medical attention.

Protection of rescue personnel: Avoid all unnecessary exposure. Use appropriate protection (see Section 9).

SECTION 5 – FIRE, FIGHTING & EXPLOSION DATA

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water Reactive. Material may react with water and may release a flammable and/or toxic gas. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. May ignite or explode on contact with steam or moist air.

Flammability: Flammable  
Flash point: Not Available  
Extinguishing media: Use dry sand or earth to smother fire. DO NOT USE WATER! Do NOT get water inside containers. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out.

Protection of fire-fighters: Use breathing apparatus (self-contained breathing apparatus with full face shield). Wear suitable protective clothing.
SECTION 6 - ACCIDENTAL RELEASE MEASURES & SPILL LEAK PROCEDURES

Personal precautions: Wear suitable gloves and eye/face protection. Avoid dust creation.

Environmental precautions: Avoid allowing product to enter drains, sewage system, ground water.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Re-use or recycle waste.

SECTION 7 - HANDLING AND STORAGE

Handling & storing: Good housekeeping - store in a cool dry place - keep containers shut. Avoid making dust. Avoid moisture.

Packing Materials: UN approved sealed containers.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- Respiratory protection: Respiratory protection equipment necessary when dust is apparent Type P1 respirator (EN 143).
- Hand protection: Protective Gloves.
- Skin protection: Work clothes.
- Eye protection: Chemical goggles or safety glasses.
- Engineering measures: Mechanical ventilation is recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Fine powder, dark grey in color. No odor.

Safety data
pH: No data available
Melting point 420 °C - lit.
Boiling point 907 °C - lit.
Flash point Not applicable
Ignition temperature No data available
Lower explosion limit No data available
Upper explosion limit No data available
Water solubility Insoluble

SECTION 10 - STABILITY & REACTIVITY DATA

Stability: Stable in dry air. Can combine vigorously or explosively with water.

Hazardous Reactions: Hazardous decomposition products formed under fire conditions. - Zinc/zinc oxides.

Incompatibility (materials to avoid): Incompatible materials, ignition sources, excess heat, strong oxidants, exposure to moist air or water; mechanical shock.
SECTION 11 – TOXICOLOGICAL INFORMATION

Acute effects:
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Dermal: Moderate irritation to rabbits, mice and guinea pigs with 1% solution applied for 5 days.
- Ingestion: May be harmful if swallowed.
- Eyes irritation: May cause eye irritation.

Chronic toxicity: n/a
Sensitization: Contact with skin causes irritation.
Carcinogenicity: NTP: No IARC: No Z List: No OHA Reg: No
Mutagenicity: In vitro and in vivo test of short-term genotoxicity: no evidence of genotoxicity.
Reproductive toxicity: No experimental or epidemiological evidence of reproduction toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

Persistence and degradability: Not applicable.
Bioaccumulative potential: Algae - 7 d at 16 °C, Bioconcentration factor (BCF): 466

Ecotoxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50 - Cyprinus carpio (Carp) - 450 μg/l - 96 h,
LC50 - Daphnia magna (Water flea) - 0,068 mg/l - 48 h

Mobility: Not applicable.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Comply with local regulations for disposal.
Waste of residues: This material and its container should be labeled Hazardous Goods.
Contaminated packaging: Keep waste packaging separate.
Waste should be disposed of in a permitted chemical waste facility.

SECTION 14 - TRANSPORT INFORMATION

ADR/RID
UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Powder)

IMDG
UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Powder)
Marine pollutant: Yes
IATA
UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc Powder)

SECTION 15 – REGULATORY INFORMATION

Classification according to Regulation (EC) 1272/2008 (GHS-CLP).
This Safety Data Sheet complies with EC regulation No. 1907/2006/

SECTION 16 - OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3
Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity
H410 Very toxic to aquatic life with long lasting effects.
N Dangerous for the environment
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Date of Issue: October 2010
Last update: October 2010
MSDS prepared by: AVK

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