

SAFETY DATA SHEET (SDS) ZINC FINE ASHES

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer & Supplier: NUMINOR CHEMICAL INDUSTRIES LTD.

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Product Name: Zinc Fine Ashes

Formula: ZnO + Zn
Synonyms: Zinc Ashes, Zinc Fines
Primary Use: Zinc and zinc chemicals production, feed additives, rubber production.

SECTION 2 - HAZARDS IDENTIFICATION

Classification according to Regulation (EC) 1272/2008 (GHS-CLP)

Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)
According to European Directive 67/548/EEC as amended.
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:	ZnO
Molecular Weight::	65.39 g/mol
Appearance & Odor:	Solid powder, grey to brown powder, odorless.
CAS-No	7440-66-6
EC-No.	215-222-5
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. **May be 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: May be 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.
Material: leather gloves, cotton gloves, rubber 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, grey to brown 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. May combine vigorously 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 Fine Ashes)

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 Fine Ashes)

Marine pollutant: Yes

IATA

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc Fine Ashes)

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-phrases(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.

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