

P.T. INDO LYSAGHT



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MATERIAL SAFETY DATA SHEET (M S D S) PT. INDO LYSAGHT - ZINC DUST

1. Identification

Product name : Zinc Dust – All grades

Chemical name : Zinc Dust
Other Name : Zinc poeder
Chemical formula : Zn

Chemical Substance Code No. : Non applicable

CAS Registry No. : 7440 - 66 - 6

IMCO Code class : 4.3 page 4373 . UN 1436

Transport Classification : Zinc Dust is not classified as dangerous goods.

Trade names : Zinc Dust C1, Zinc Dust C2, Zinc Dust F-500
Zinc Dust F-1000, Zinc Dust F-2000,
Zinc Dust F-3000

Producer : PT. Indo Lysaght
Jl. Kapt. Tole Iskandar KM.2, Sukmajaya, Depok
Indonesia

Supplier : PT. Indo Lysaght
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2. Composition/Information on ingredients

Components	Weight	Danger symbol : Not applicable
Total Zinc	min. 98.5 %	Risk phrases : R15
Metallic Zinc	min. 94.0 %	
Lead	max. 0,15 %	
Cadmium	max. 0,08 %	
Iron	max. 0,005 %	

3. Hazardous identification

Classification : Water-prohibited materials

Physical Hazards : React with water to generate hydrogen gas

Health Hazards : May cause headache, chill, joints-ache perspiration in case of inhaling a lot, or get what is termed Zinc Fever. The symptoms disappear after hours.

4. First aid measures

General : Contaminated clothing should be removed and washed before used again.

Inhalation : Remove to fresh air. Blow nose and gargle. Obtain medical attention if discomfort occurs.

Ingestion : Wash with water and induce vomiting by touching throat inside. rinse and flush mouth and throat with clean water. Obtain physician's attention.

Skin : Wash with soap and water.

Eyes : Flush with plenty water. Remove all zinc dust and if necessary visit a doctor.

5. Fire-fighting measures – emergency

Extinguishing Media : Sand or reagent, obey chemicals or carbon dioxide (CO₂).
DO NOT USE: Water (if avoidable).

Unusual fire & explosion hazards : Under normal condition Zinc Dust will not show any tendency to explosion. However under extreme condition may liable to explosion.

Hazardous decomposition products : Combustion can produce Zinc Oxide fumes.

Protective measures
in fire : Use respirator protection as combustion may produce hazardous fumes.

Spillage : Collect by broom or scoop into a vessel (paper bag or can).
Keep at safety place. Do not use water.

6. Accidental release measures

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.

Leak to water : Zinc is heavy and will sink to the bottom – report to authority.

7. Handling and storage

Handling : Keep away from heat, sparks and open flame.
Container/bag 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.

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/bag.

Storage criteria : Water reactive storage.

8. Exposure control/personal protection

- Sufficient ventilation should be provided to maintain the dust concentration.

Personal protection equipment.

- Use respirator mask
- Safety glasses or goggles
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9. Physical and chemical properties

Molecular weight	: 67,37 mg/cm ³
Appearance	: Grey-white powder
Odour/taste	: Odourless
Boiling point	: 907°C
Melting point	: 419,5°C
Specific gravity	: 7,1 gm/cm ³ at 20°C
Flash point	: Data not available

10. Stability and reactivity

Stability	: Normal stable under directed condition of use
Ignition point	: 600°C
Explosive range	: Upper limit – not available data Lower limit – 480 gm/m ³
Solubility description	: Insoluble in water
Reactivity	: - No spontaneous combustion
Hazardous decomposition	
Products	: When react with water(in bulk) to generate hydrogen gas, Combustion may produce Zinc Oxide fumes.
Oxidation	: React with moisture to form Zinc oxide
Incompatible Material	: Incompatible with oxidizing agents, acids, halogenated hydrocarbons, alkaline metal, water and sources of ignition.

11. Toxicological information

Corrosion to skin	: Not available
Irritation, skin & eyes	: May irritate. Skin 300 µg/3D-1 (4)
Acute toxicity	: Person inhaled TCLo 124 mg/m ³ /50 Month
Sub-acute toxicity	: No information reported
Chronic toxicity	: No information reported
Calcinogenicity	: No information reported
Mutanenicity	: No information reported
Generative toxicity	: No information reported
Others	: Inhalation may cause zinc fume fever.

12. Ecological information

Accumulated toxicity	: No information
Hazards to fish	: No information
Contamination	: Avoid contaminating public drains or water supply

13. Disposal considerations

Commit the disposal to agent or sub-contractor with a written remark to show chemical name, legal water-prohibited and legal flammable substance.

Anti-water pollution law requires less than Zn 5 mg/litre as treated drainage.
Comply with national or local disposal or discharge laws.

14. Transport information

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

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

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
Risk phases	R 15 Contact with water liberates flammable gas
Safety phrases	S-7/8 Keep container tightly closed and dry S-43,7 In case of fire use CO2 or sand. DO NOT USE WATER.

16. Other information

The information contained in this MSDS is developed from what is believed to be accurate and reliable sources, but Indo Lysaght makes no warranties or expressed or implied or assumes no responsibility for the accuracy or completeness of the above data

Date: Revised 6 November 2014