CEZinc

Zinc électrolytique du Canada limitée
Au nom de la Société en commandite Revenu Noranda

Canadian Electrolytic Zinc Limited
On behalf of Noranda Income Limited Partnership

SAFETY DATA SHEET

Zinc Metal (Ingot, Shot)

1. Identification

Product identifier:	Zinc metal (ingot, shot)
Other means of identification:	Not applicable
Recommended use and restrictions on use:	Steel galvanizing, Alloying, Batteries
Initial supplier identifier:	Noranda Income Limited Partnership 860 Boul. Gérard-Cadieux, Salaberry-de-Valleyfield, Québec, Canada, J6T 6L4
Information:	info.cezinc@glencore.ca
Emergency telephone number (hours of operation):	1 (450) 373-9144 (Monday to Friday from 8:00 AM to 4:00 PM EDT)

2. Hazard Identification

Classification of the product :	The substance is not classified according to the WHMIS and the GHS
GHS information element :	Not applicable
Precautionary statements	Not applicable
Other know hazards	Not applicable

3. Composition/Information on ingredients

Substance or mixture :	Substance
Chemical name	Zinc
Common name and synonyms	Zn
CAS number / Other identifiers	7440-66-6

4. First-aid measures

Description of necessary first aid measures

Inhalation :	Not applicable
Ingestion :	Not applicable
Skin Contact	Not applicable
Eye Contact :	Not applicable

Most important symptoms and effects

Symptoms of metal fume fever (in case of generation of fumes and inhalation of excessive quantities of zinc oxide)

Indication of immediate medical attention and special treatment needed

No further relevant information available

5. Fire-fighting measures

Suitable extinguishing media:
Dry chemical, dry sand or special powder extinguishing media. Use extinguishing media adapted to the immediate environment.
Unsuitable extinguishing media:
Water may be ineffective for extinguishing a fire but should be used to keep fire exposed ingot and shot cool.
Specific hazards arising from the hazardous product:
Emits toxic fumes (zinc oxides) under fire conditions.
Hazardous combustion products:
Zinc oxides
Special protective equipment and precautions for fire-fighters:
Wear self-contained breathing apparatus (SCBA) and protective clothing

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
For non-emergency personnel:
Avoid inhalation of dust. Evacuate hazardous area and follow emergency procedures
For emergency responders:
Protective clothing, gloves, and safety glasses. When dust or fumes are involved wear an approved self-contained breathing apparatus.
Environmental precautions:
Do not let product enter drains.
Methods and materials for containment and cleaning up:
Sweep up and place in a suitable container for proper disposal. Clean surfaces with soap and water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. Handling and storage

Control parameter:
Zinc ingots suspected of containing moisture should be thoroughly dried before being added to a molten bath.
Advice on general hygiene:
Dot not eats, drink or smoke in areas where this product is handled or processed. Wash hands and face after use.
Conditions for safe storage, and incompatibilities:
Store in a dry, covered area away from incompatible materials. Avoid moisture.

8. Exposure controls / Personal protection

Control parameter
Not available
Appropriate engineering controls :
Wash hands after working with substance. Change contaminated clothing.

Individual protection measures

Eyes

Safety glasses or googles

Skin

Wear nitrile or rubber gloves, apron r lab coat and coveralls. Safety boots is recommended

Inhalation

In case of fume or dust generation respiratory protection needed, recommended filter type P3

Other

Do not eat, drink or smoke in work area. Wash hands before eating or drinking and after working with the product.

9. Physical and chemical properties

Physical state:	Solid (ingot, shot)
Colour:	Greyish
Odour:	Odourless
Odour threshold:	Not applicable
pH:	Not applicable
Melting point:	420°C (788°F)
Freezing point:	Not applicable
Boiling point:	908°C (1666.4°F)
Flash point	Not applicable
Evaporation rate:	Not applicable
Flammability:	Not flammable
Upper and lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	Not available
Solubility:	No (water, methanol, diethyl ether, n-octanol, acetone) Yes (acid, alkali)
Partition coefficient -n-octanol/water:	Not available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not available
Viscosity:	Not applicable

10. Stability and reactivity

Reactivity :

Reacts with acid and strong alkalis to generate hydrogen gas

Chemical stability :

Stable under normal temperature and pressures

Possibility of hazardous reactions
Contact with acids and alkalis generate highly flammable hydrogen gas. Contact with acidic solutions of arsenic and antimony compounds may evolve highly toxic arsine or stibine gas
Conditions to avoid
Avoid overheating of molten bath. Avoid moisture and contact with incompatibles substances.
Incompatibles materials
Acids, strong alkalis, strong oxidizers such as chlorine, fluorine, bromine, sodium potassium or barium peroxide, sodium or potassium chlorate, chromium trioxide, tellurium, selenium, sulfur and fused ammonium nitrate
Hazardous decomposition products:
High temperature operations will generate zinc oxide fumes. Hydrogen gas evolution in contact with acid or strong alkalis

11. Toxicological information

Likely routes of exposure
Inhalation
If excessive quantities of zinc oxide fume are inhaled, it can result metal fume fever
Ingestion
Not harmful
Skin contact
Not irritating
Eyes contact
Not irritating
Symptoms related to the physical, chemical and toxicological characteristics
Symptoms of metal fume fever are immediate dryness and irritation of the throat, tightness of the chest and coughing, followed by flu-like symptoms of fever, malaise, perspiration, frontal headache, muscle cramps, low back pain, occasionally blurred vision, nausea, and vomiting. There are no recognized complications, after affects, or chronic affects that result from this condition
Delayed and immediate effects, and chronic effects from short term and long term exposure
Not avalaible
Numerical measures of toxicity
Not available

12. Ecological information

Ecotoxicity : Harmful to aquatic life
Toxicité aquatique : PNEC (fresh water) : 21 µg/L
Toxicité terrestre : PNEC (soil) : 27 mg/kg dry soil
Persistence and degradability Persistance indéfinie sous forme de cation
Indefinite persistence in cation criteria
Bioaccumulative potential
Does not meet bioaccumulation criteria
Mobility in soil
Soluble compounds produced by acidic conditions. Become mobile in water and in soil.
Other adverse effects
Not available

13. Disposal considerations

Disposal methods
Recycle to process, if possible. Waste must be disposed of in accordance with the local regulations. Do not mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport information

This product is not dangerous under current provisions of the Transportation of Dangerous Goods (TDG), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the safety date sheet contains all the information required by the Hazardous Product Regulations.

16. Other informations

Glossary

IATA	Globally Harmonized System of Classification and Labelling of Chemicals
IMDG	Hazardous Products Regulations
CESE	International Air Transport Association
RDP	International Maritime Dangerous Goods Code
SIMDUT	Predicted No Effect Concentration
SGH	Transportation of Dangerous Goods
TMD	Workplace Hazardous Materials Information System

References :

CCOHS	https://www.ccohs.ca/
CNESST	https://reptox.cnesst.gouv.qc.ca/Pages/repertoire-toxicologique.aspx
GHS Rev. 9, 2021	https://unece.org/transport/standards/transport/dangerous-goods/ghs-rev9-2021
Governement of Canada	https://www.canada.ca/en/services/health.html
HPR	https://laws-lois.justice.gc.ca/eng/regulations/SOR-2015-17/
TDGR	https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/

SDS information

Version :	1
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The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.