

Zinc wheel balance weights

Section 1. Identification

Common name: Zinc wheel balance weights

Product Code: N/A

Synonym: Wheel weight, balancing weight, lead-free weight

Material uses: Automotive wheel balancing part

Supplier / Manufacturer:

Plombco Inc.

66 Rue Edmond

Salaberry-de-Valleyfield

Québec, Canada, J6S 3E8

Phone: 450-371-8800

In case of emergency:

450-371-8800

Section 2. Hazards identifications

Classification: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Section 3. Composition and information on ingredients

<u>Name</u>	<u>CAS</u>	<u>Concentration %</u>
Zinc	7440-66-6	80 – 96.1
Iron	7439-89-6	2 – 20
Aluminum	7429-90-5	3.9 – 4.3
Magnesium	7439-95-4	0.01 – 0.05
Nickel	7440-02-0	0 – 0.02

Section 4. First aid measures

Description of first aid if required:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

Skin contact:

Wash with plenty of water and soap.

Inhalation:

Bring the conscious victim to fresh air.

Ingestion:

Rinse mouth with water, drink a glass of water and induce vomiting

Indication of immediate medical attention and special treatment needed, if necessary:

Do not give anything by mouth to an unconscious victim.

Most important acute symptoms and effects:

Irritation may occur to eyes, skin or respiratory tracts. In case of ingestion of large quantities of dust or powder, may cause abdominal cramps, black stools, vomiting, diarrhea, or convulsion.

Most important delayed symptoms and effects:

No chronic effects in its current state.

Section 5. Fire fighting measures

Flammability of the product:

In current form, non-combustible.

Flash point:

N/A

Auto-ignition temperature:

N/A

Products of combustion:

Various metal oxides

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and appropriate protective clothing.

Suitable extinguishing media:

Use means of extinction the most suited to the surrounding materials.

Specific hazard arising from the chemical:

Product itself poses no fire risk, however if melted, molten metal will react violently when mixed with water. In case of dust, heavy concentrations in air may become explosive if exposed to an ignition source.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non emergency personnel: Evacuate the area.

For emergency personnel: Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

Environmental precautions:

Do not let product enter drains

Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and storage

Precautions in Handling:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

Precautions in Storage:

Keep container tightly closed in a cool, dry and well-ventilated place.

Section 8. Exposure Controls, Personal Protections

Control parameters:

Component	CAS	Value	Control parameters	Basis
Aluminum	7429-90-5	TWA	10 mg/m ³	CNESST
Nickel	7440-02-0	TWA	1.5 mg/m ³	ACGIH
		TWA	1 mg/m ³	OSHA

Engineering controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal protective equipment:

Eyes: Wear safety glasses.

Skin/body: Wear a lab coat or any other appropriate protective clothing.

Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

Hands: Wear chemical resistant protective gloves.

Section 9. Physical and chemical properties

Physical state: Solid

Color: Greyish

Odour: Odorless

Melting point/Freezing point: 387°C / 728.6°F

Boiling point: 1180°C / 2156°F

Flash point: Data not available

Auto-ignition temperature: Data not available

pH: Data not available

Solubility: Insoluble

Density: Data not available

Section 10. Stability and reactivity

Chemical stability: This product is unstable under the following conditions: Fine powders or dusts may ignite spontaneously when exposed to moisture.

Reactivity conditions: High temperatures, exposure to strong acids, oxidizers and other incompatible materials.

Incompatible materials: Oxidizing agents. With water, dilute acids and alkalis there is hydrogen evolution, flammable and/or explosive gas.

Hazardous decomposition products: At high temperatures, metal oxide fumes.

Section 11. Toxicological information

Acute toxicity:

Iron	7439-89-6	DL ₅₀ Oral: Rat = 7500 mg/Kg
Nickel	7440-02-0	DL ₅₀ Oral: Rat > 2000 mg/Kg CL ₅₀ Inhalation: Rat - > 2.55 mg/l 4h

Skin corrosion/irritation:

Not applicable

Serious eye damage/irritation:

Not applicable

Respiratory or skin sensitisation:

Nickel: May cause an allergic skin reaction

Gem cell mutagenicity:

Not applicable

Carcinogenicity:

Nickel: May cause cancer

Reproductive toxicity:

Not applicable

STOT- Single exposure:

Not applicable

STOT- repeated exposure:

Nickel: Causes damage to organs through prolonged or repeated exposure

Aspiration hazard:

Not applicable

Information on likely route of exposure:

Inhalation, ingestion

Section 12. Ecological information

Ecological data for aquatic environments:

Iron	7439-89-6	CL ₅₀ - Morone saxatilis 13.6 mg/l - 96h
Aluminum (metal powder)	7429-90-5	CL ₅₀ - Oncorhynchus mykiss (rainbow trout) 0.12 mg/l - 96h
Nickel	7440-02-0	CL ₅₀ - Cyprinus carpio (carp) 1.3 mg/l - 96h
		CE ₅₀ - Daphnia magna 1 mg/l - 48h

Persistence and degradability:

Iron: Insoluble in water

Bioaccumulative potential:

Data not available

Mobility in soil:

Data not available

Other adverse effects:

Iron: Unlikely due to insolubility in water.

Nickel: Very toxic to aquatic life with long lasting effects

Section 13. Disposal considerations

Waste disposal:

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

Section 14. Transportation information

No TDG/DOT/IMDG/IATA Classification

Section 15. Regulatory information

NFPA Classification:



Health: 1
Flammable: 0
Reactivity: 0
Specials conditions: 0

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

WHMIS 1988:



Class D2B - Materials Causing Other Toxic Effects

Section 16. Additional information

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3.00

Elaborated by:

Toxyscan inc.

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Références:

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) <http://www.hc-sc.gc.ca/a>*