Safety Data Sheet

Zinc wheel balance weights

Section 1. Chemical product and company identifications

Common name: Zinc wheel balance weights
Chemical formula: Not applicable
Chemical Family: Metal
Material uses: Automotive wheel balancing part
Synonyms: Wheel weight, balancing weight, lead-free weight

Supplier / Manufacturer:

Plombco Inc.
66, Edmond street
Salaberry-de-Valleyfield, Quebec J6S 3E8
Phone: 450-371-8800
Toll free : 800-611-7074
Fax : 450-371-0812

In case of emergency: **450-371-8800**

Section 2. Hazards identifications

Physical state: Solid
Warning: In current form, risks are unlikely. However, upon transformation or improper manipulations, dusts, gas or fumes created may cause irritation or have carcinogenic and teratogenic effects.

Routes of entry: Unlikely in current form, however in case of dust, gas or fumes routes of entry are inhalation and ingestion.

Potential acute effects

- **Eyes:** Unlikely in current form. In case of dust, irritation may occur.
- **Skin:** Unlikely in current form. In case of dust, irritation may occur.
- **Inhalation:** Unlikely in current form. In case of dust, gas or fume, may cause irritation to respiratory tracts and cause long-term effects in case of chronic exposure. (See section 11)
- **Ingestion:** Unlikely in current form, however, in case of ingestion of large quantities of dust or powder, may cause abdominal cramps, vomiting, diarrhoea.

Potential chronic effects

- **Carcinogenic effects:** Unlikely in current form, however, product contains Nickel classified as IARC Group 2B – Possibly carcinogenic to humans.
- **Mutagenic effects:** No known effects
- **Teratogenic effects:** Unlikely in current form, however, product contains Nickel which has teratogenic effects on the foetus.
- **Medical conditions aggravated by overexposure:** *See Toxicological Information (section 11).*

Section 3. Composition and information on ingredients

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

Section 4. First aid measures

The need for first aid is unlikely in current form, however in case of dust, gas or fumes upon transformation or improper use, apply following first aid procedures.

Eye contact: Rinse eye with plenty of water, if safe to do so, remove contact lens and continue rinsing until all residues are gone.
Skin contact: Remove contaminated clothing. Wash affected area with soap and water.
Inhalation: Remove victim to fresh air, seek medical assistance is irritation symptoms occur.
Ingestion: If victim is conscious, rinse mouth with water, drink a glass of water and induce vomiting. If unconscious, perform CPR with a pocket mask. Obtain medical help immediately.

Section 5. Fire fighting measures

Flammability of the product: In current form, non-combustible.
Lower limit of explosivity: Not applicable
Upper limit of explosivity: Not applicable
Auto-ignition temperature: Not applicable
Flash point: Not applicable
Products of combustion: Various metal oxides
Fire hazards in presence of various substances: Not applicable
Fire fighting media and instructions: Use firefighting methods suitable to surrounding area.
Notice: 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: Wear all necessary protective equipment,
Environmental precautions: Prevent environmental contamination; keep out of common garbage and sewers.
Methods for cleaning up: Sweep up and shovel. Contact local authorities for big spills.

Section 7. Handling and storage

Handling: Wear protective gloves and wash hands before eating, drinking and smoking. Wash yourself and your clothes after work to prevent lead contamination outside of work.
Storage: Store in a cool dry well ventilated area. Keep away from oxidizing agents.

Section 8. Exposure Controls, Personal Protections

Engineering controls: In case of vapours or dust, use exhaust ventilation.
Eyes: Wear safety glasses
Respiratory: In case of heavy dust and vapour concentrations, use a NIOSH approved respirator.
Hands: Wear protective gloves
Skin/body: Wear coveralls

Section 9. Physical and chemical properties

Physical status: Solid
Color: Greyish
Odour: Odourless
Threshold odour: Not applicable
Density: Unknown
Freezing point: Unknown
Melting point: 387° C (729°F)
Boiling point: 1180°C (2156°F)
Vapour tension: Not applicable
Density of vapour: Not applicable
Solubility in water with saturation: Insoluble
Rate of evaporation: Not applicable
Granulometry: Not applicable
pH: Not applicable

Section 10. Stability and reactivity

Stability and reactivity: Stable in current form, however high concentrations of dust, vapours or fumes are reactive.
Incompatibility: Strong acids
Products of combustion: At high temperatures, metal oxide fumes.
Reactivity conditions: High temperatures, exposure to strong acids, oxidisers and other incompatible materials.

Section 11. Toxicological information

UNITED STATES:
Name of product:

Aluminum (7429-90-5)
ACGIH: TWA 10 mg/m^3 (metal dust); TWA 5 mg/m^3 (respirable fraction)
OSHA: TWA 10 mg/m^3 (total dust); TWA 5 mg/m^3 (respirable fraction)

Nickel (7440-02-0)
ACGIH: TWA 1.5 mg/m^3 (inhalable fraction)
OSHA: TWA 1 mg/m^3

Zinc (7440-66-6)
NIOSH REL: Dust: TWA 5 mg/m^3 C mg/m^3; Fume: TWA 5 mg/m^3 ST 10 mg/m^3
OSHA PEL+: TWA 5 mg/m^3 (fume) TWA 15 mg/m^3 (total dust) TWA 5 mg/m^3 (resp dust)

Iron (7439-89-6)
ACGIH: TWA 5 mg/m^3 (dust and fume, as Fe)
OSHA: TWA 10 mg/m^3

Magnesium (7439-95-4)
ACGIH: TWA 10 mg/m^3
OSHA: PEL 15 mg/m^3 (total dust)

Information on ingredients:

Name	CAS	LD_{50}	LC_{50}
Iron	7439-89-6	Rat (Oral) 984mg/kg	NA
Aluminum	7429-90-5	NA	NA
Magnesium	7439-95-4	NA	NA
Nickel	7440-02-0	Guinea pig (oral) 5 mg/kg Dog (Intravenous) 10 mg/kg Rat (Oral) >9000mg/kg	TC_{lo}; Guinea pig (inhalation) 15 mg/m^3 91 weeks (Intermittent)

Routes of entry: Unlikely in current form, however in case of dust, gas or fumes routes of entry are inhalation and ingestion.

Potential acute effects

- **Eyes:** Unlikely in current form. In case of dust, irritation may occur.
- **Skin:** Unlikely in current form. In case of dust, irritation may occur.
- **Inhalation:** Unlikely in current form. In case of dust, gas or fume, may cause irritation to respiratory tracts and cause long-term effects in case of chronic exposure. (See section 11)
- **Ingestion:** Unlikely in current form, however, in case of ingestion of large quantities of dust or powder, may cause abdominal cramps, vomiting, diarrhoea.

Potential chronic effects

- **Carcinogenic effects:** Unlikely in current form, however, product contains Nickel classified as IARC Group 2B – Possibly carcinogenic to humans.
- **Mutagenic effects:** No known effects
- **Teratogenic effects:** Unlikely in current form, however, product contains Nickel which has teratogenic effects on the foetus.
- **Medical conditions aggravated by overexposure:** *See Toxicological Information (section 11).*

Section 12. Ecological information

Ecological data: The status of the intact finished product presents no particular risk to the environment. However, dust and residue can pose risks, as described below.

Name	Results	Species	Period
Zinc (7440-66-6)	EC_{50} 0.11 - 0.271 mg/L	Freshwater algae	96 Hr
	EC_{50} 0.09 - 0.125 mg/L	Freshwater algae	72 Hr
Iron (7439-89-6)	LC_{50} 13.6 mg/L	Morones saxatilis	96 Hr
	LC_{50} 0.56 mg/L	Cyprinus carpio	96 Hr
Aluminum (7429-90-5)	EC_{50} 1.4 mg/L	Water flea	48 Hr
Nickel (7440-02-0)	LC_{50} 31.7 mg/L	Rainbow trout (adults)	96 Hr
	LC_{50} 3.1 mg/L	Fathead minnow	96 Hr
	EC_{50} 0.1 mg/L	Freshwater algae (4 species)	72 Hr
	LC_{50} 510 mg/L	Water flea	96 Hr

Effects on environment: Toxic to aquatic life.
Various harmful effects: Harmful effects to aquatic life
Environmental precautions: Prevent release into the environment
Breakdown products: Same as components
Toxicity of the biological breakdown products: Same as components

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. See the internal dangerous chemical waste management procedures.

Section 14. Transportation information

Classification DOT/ IMDG/IATA label: Not regulated

DOT (Shipping name): Not applicable
UN number: Not applicable
Class: Not applicable
Packaging group: Not applicable
Additional information: None

Section 15. Regulatory information

GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

Not regulated, Consumer product

Signal word: None

Hazard statements: None

Precautionary statements:

P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P264: Wash ... thoroughly after handling

Important Note: The intact product is a non-controlled product under WHMIS and GHS rules. However, dust and residue that may be derived from the handling will be controlled as follows:

Carcinogenicity (Category 2)
Reproductive toxicity (Category 2)

Acute toxicity, Oral (Category 4)
Specific target organ toxicity - repeated exposure (Category 2)

Acute aquatic toxicity (Category 1)

Signal word: Warning

Hazard statements:

H302: Harmful if swallowed
H351: Suspected of causing cancer
H361: Suspected of damaging fertility or the unborn child
H373: May cause damage to organs through prolonged or repeated exposure
H410: Very toxic to aquatic life with long lasting effects

Precautionary statements:

P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash ... thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P312+P330: If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

P308+P313: If exposed or concerned: get medical advice/attention
P391: Collect spillage
P405: Store locked up
P501: Dispose of contents/container to an approved waste disposal plant.

UNITED STATES:

NFPA classification

Health: 1
Flammable: 0
Reactivity: 0
Specials conditions: None

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

U.S. Federal regulations:

TSCA 8(b) inventory: This material is listed or exempted
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
CWA (Clean Water Act) 307: No products were found.
CWA (Clean Water Act) 311: No products were found.
CAA (Clean Air Act) 112 accidental release prevention: No products were found.
CAA (Clean Air Act) 112 regulated flammable substances: No products were found.
CAA (Clean Air Act) 112 regulated toxic substances: No products were found.

State regulations:

DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed
Substances in Massachusetts: This material is listed.
Dangerous substances in New Jersey: This material is listed.
New York – Dangerous substances with acute effects: This material is listed.
Dangerous substances in Pennsylvania – right to know: This material is listed.

CANADA:

WHMIS (Canada):

Not regulated, Consumer product

Important Note: The intact product is a non-controlled product under WHMIS and GHS rules. However, dust and residue that may be derived from the handling will be controlled as follows:

D2A - Very toxic material causing other toxic effects

Section 16. Additional information

References:

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety date sheet from the components.

Date of issue: August 21, 2015
Supercedes: August 12th, 2015
Version: 4.2
MSDS Code: PBCO/FDS/ZnAn/001/v4
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