

Lead Wheel Balance Weight

Section 1. Chemical product and company identifications

Common name: Wheel balance weight

Chemical family: Metal

Chemical formula: Not applicable

Material uses: Wheel balancing automotive part

Synonyms: Wheel weight, balance, lead

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, black stools, vomiting, diarrhea, or convulsion. In case of chronic exposure, long term effects are to be expected. (See section 11)

Potential chronic effects

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

Section 3. Composition and information on ingredients

| <u>Name</u> | <u>CAS</u> | <u>Concentration %</u> |
|-------------|------------|------------------------|
| Lead | 7439-92-1 | 75 to 95% |
| Iron | 7439-89-6 | 2 to 20% |
| Antimony | 7440-36-0 | 3.4 to 4.2% |
| Arsenic | 7440-38-2 | 0.35% |

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 if 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

Molecular mass: 207.2 g/mol

Physical status: Solid

Color: Gray-white

Odour: Odourless

Threshold odour: Not applicable

Density: Unknown

Freezing point: Unknown

Melting point: 622.4°F (328°C)

Boiling point: 1740°F (3180°C)

Vapour pressure: 0.133 Kpa a 973°C

Density of vapour: Not applicable

Coefficient of division (water/oil): Not applicable

Solubility in water with saturation: Not soluble in water

Rate of evaporation: 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, hydrogen peroxide, ammonium nitrate, sodium acetylide and oxidizing agents. In contact with sodium azide will create lead azide, a known detonator. Molten metal is explosive upon contact with water or active metals.

Products of combustion: In high temperatures, may emanate highly toxic lead fumes and metal oxides.

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

Section 11. Toxicological information

Toxicological data:

Lead (7439-92-1)

ACGIH: TWA 0.05 mg/m³ (dust and fume)

OSHA: TWA 50µ/m³ (dust and fume)

Arsenic (7440-38-2):

ACGIH: TWA 0.01 mg/m³

OSHA: TWA 0.002 mg/m³

Information on ingredients:

| <u>Name</u> | <u>CAS</u> | <u>LD₅₀</u> | <u>LC₅₀</u> |
|--------------------|-------------------|--|-------------------------------|
| Lead | 7439-92-1 | Undetermined | Undetermined |
| Iron | 7439-89-6 | Rat (Oral) 984mg/kg | Not applicable |
| Arsenic | 7440-38-2 | Rat (Oral) 763 mg/kg Mouse (Oral) 145 mg/kg | LC _{Lo} Mouse 338ppm |

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, black stools, vomiting, diarrhea, or convulsion. In case of chronic exposure, long term effects are to be expected. (See section 11)

Potential chronic effects

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- **Mutagenic effects:** No known effects
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Section 12. Ecological information

Ecological data:

| <u>Name</u> | <u>Results</u> | <u>Species</u> | <u>Period</u> |
|--------------------|------------------------------------|-----------------------|----------------------|
| Lead | LC ₅₀ 2.2 mg/L | Micropterus dolomieu | 96 hrs |
| | Mortality LOEC 1.19 mg/L | Oncorhynchus mykiss | 96 Hrs |
| | Mortality LOEC 0.17 mg/L | Daphnia | 24 Hrs |
| | Mortality NOEC 0.099 mg/L | Daphnia | 24 Hrs |
| Iron | LC ₅₀ 13.6 mg/L | Morones saxatilis | 96 Hrs |
| | LC ₅₀ 0.56 mg/L | Cyprinus carpio | 96 Hrs |
| Arsenic trisulfide | LC ₅₀ 63.5 – 105.4 mg/L | Fathead minnow | 96 Hrs |

Effects on environment: Very toxic to aquatic life.

Various harmful effects: Bioaccumulation in soil plants and wildlife.

Environmental precautions: Prevent environmental release, entry into water ways and or sewers.

Breakdown products: Lead compounds

Toxicity of the biological breakdown products: Bioaccumulation

Section 13. Disposal considerations

Waste disposal: Dispose of the products waste is in conformity with the federal, state and local laws. Do not throw out to common garbage and avoid release into environment.

Section 14. Transportation information

Classification DOT/ IMDG/IATA label: According to proposition 99, there are no regulations for this product for quantities under 450 kg for either ground transportation and railways.

DOT (Shipping name): Environmentally hazardous substance, solid, N.O.S. (LEAD)

UN number: UN3077 (for more then 450 kg)

Class: 9

Packaging group: III

Additional information: RQ 10 lbs

Section 15. Regulatory information

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



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
Chronic 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: No

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

U.S. Federal regulations:

TSCA 8(b) inventory:

SARA 302/304/311/312 extremely hazardous substances: This material is listed or exempted.

SARA 302/304 emergency planning and notification: This material is listed

SARA 302/304/311/312 hazardous chemicals: This material is listed

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: This material is listed

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):



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 data sheet from the components.

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