

Steel wheel balance weights

Section 1. Chemical product and company identifications

Common name: Steel wheel balance weights, Plasteel
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.

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.
- **Mutagenic effects:** No known effects
- **Teratogenic effects:** Unlikely in current form.
- **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>
Iron	7439-89-6	49% to 91%
Manganese	7439-96-5	0.25% to 0.6%
Silicon	7440-21-3	0.15% to 0.30%
Copper	7440-50-8	0.2%
Chrome	7440-47-3	0.15%
Carbon	7440-44-0	0.1%

May also contain:

Polypropylene	9003-07-0	8% to 50%
---------------	-----------	-----------

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: Not flammable

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: 1535°C (2795°F)

Boiling point: 3000°C (5432°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:

Iron (7439-89-6)

ACGIH: TWA 5 mg/m³ (dust and fume, as Fe)

OSHA: TWA 10 mg/m³

Manganese (7439-96-5)

ACGIH: TWA 0.2 mg/m³ (as Mn)

OSHA: TWA 5 mg/m³ (as Mn) (related Manganese compounds)

Silicon (7440-21-3)

ACGIH: TWA 10 mg/m³

OSHA: TWA 15 mg/m³ (total dust); 5 mg/m³ (respirable fraction)

Copper (7440-50-8)

ACGIH: TWA 0.2 mg/m³ (fume); TWA 1 mg/m³ (dusts and mists).

OSHA: TWA 0.1 mg/m³ (fume).

NIOSH: TWA 1 mg/m³ (dusts and mists); 0.1 mg/m³ (fume)

Chromium (7440-47-3)

ACGIH: TWA 0.5 mg/m³

OSHA: TWA 1 mg/m³

Information on ingredients:

<u>Name</u>	<u>CAS</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
Iron	7439-89-6	Rat (Oral) 984mg/kg	NA
Manganese	7439-96-5	Rat (oral) > 9 g/kg	TC ₁₀ ; Human (inhalation) 2300 µg/m ³
Silicon	7440-21-3	LD50 Oral - rat - 3,160 mg/kg	NA
Copper	7440-50-8	Mouse - 3.5 mg/kg	NA
Chromium	7440-47-3	Human (oral) 71 mg/kg	TC ₁₀ ; Human (inhalation) 110 µg/m ³ 3 years (continuous) tumorigenic (carcinogenic) TC ₁₀ ; Rat (implant) 1200 µg/kg intermittent over 6 years
Carbon	7440-44-0	Rat (oral) > 10 g/kg	NA

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 Copper classified as IARC Group 2B – Possibly carcinogenic to humans.
- **Mutagenic effects:** No known effects
- **Teratogenic effects:** Unlikely in current form.

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.

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
Iron (7439-89-6)	LC ₅₀ 13.6 mg/L	Morones saxatilis	96 Hr
	LC ₅₀ 0.56 mg/L	Cyprinus carpio	96 Hr
Copper (7440-50-8)	LC ₅₀ <0.3 mg/L	Pimephales promelas	96 Hr
	LC ₅₀ 0.052 mg/L	Oncorhynchus mykiss	96 Hr
	LC ₅₀ 1.25 mg/L	Lepomis macrochirus	96 Hr
	LC ₅₀ 0.112 mg/L	Poecilia reticulata	96 Hr
	EC ₅₀ 0.0426-0.0535mg/L	Pseudokirchneriella subcapitata	72 Hr
	EC ₅₀ 0.03 mg/L	Daphnia magna	48 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 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:



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

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 hands 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: Copper and chromium are listed
CWA (Clean Water Act) 311: Copper and chromium are listed
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 Part 1910.1200 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.

Date of issue: August 21, 2015

Supersedes: August 12, 2015

Version: 3.2

MSDS Code: PBCO/FDS/FeAn/001/v3

Elaborated by: Toxyscan inc., 866-780-0599

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, Toxyscan inc., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.