

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Tire Bead Wire

Synonyms: Bronze Coated Tire Bead Wire

Intended Use of the Product

Use of the Substance/Mixture: For professional use only. Tire bead wire.

Name, Address, and Telephone of the Responsible Party

Supplier

National Standard
3602 N. Perkins Road
Stillwater, OK 74075
405-377-5050

Emergency Telephone Number

Emergency Number : 405-377-5050

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Not classified

Label Elements

GHS-US Labeling

No labeling applicable

Other Hazards

Wire may be cut using heat or mechanically. Cutting with heat/mechanically is not expected to generate significant amounts of fumes/dust. User-generated dust may be ignited and is difficult to extinguish. This product contains components that are environmentally hazardous and small chips, fine turnings, and dust from processing may be toxic to aquatic life.

Unknown Acute Toxicity (GHS-US)

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product Identifier | % (w/w) | Classification (GHS-US) |
|-----------|--------------------|--------------|--|
| Iron | (CAS No) 7439-89-6 | >97 | Comb. Dust Flam. Sol. 1, H228 Self-heat. 1, H251 |
| Manganese | (CAS No) 7439-96-5 | 0.4 - 1 | Comb. Dust |
| Carbon | (CAS No) 7440-44-0 | 0.05 - 0.9 | Comb. Dust |
| Silicon | (CAS No) 7440-21-3 | 0.1 - 0.4 | Comb. Dust |
| Copper | (CAS No) 7440-50-8 | 0.001 - 0.2 | Comb. Dust Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| Tin | (CAS No) 7440-31-5 | 0.001 - 0.02 | Comb. Dust |

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

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Skin Contact: Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting. Rinse mouth. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Under normal conditions of use not expected to present a significant hazard. During processing or physical alteration, fumes or dust may cause irritation of the respiratory tract, eyes, skin, and are harmful.

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Skin Contact: Prolonged contact with large amounts of dust or fumes from physical alteration may cause mechanical irritation.

Eye Contact: Prolonged contact with large amounts of dust or fumes from physical alteration may cause mechanical irritation.

Ingestion: Ingestion is not considered a potential route of exposure.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: If material is hot or in dust form, do not use a heavy water stream.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable. Dust, chips, or ribbons can be ignited more easily, by an ignition source, by improper machining, or by spontaneous combustion if finely divided.

Explosion Hazard: Product is not explosive.

Reactivity: Stable at ambient temperature and under normal conditions of use.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Do not breathe fumes from fires or vapors from decomposition. Keep upwind.

Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion and decomposition products.

Hazardous Combustion Products: Oxides of iron. Metal oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not handle until all safety precautions have been read and understood. Avoid breathing (dust or fumes).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Avoid creating or spreading dust.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency Procedures: Eliminate ignition sources. Evacuate unnecessary personnel, isolate, and ventilate area.

Environmental Precautions

Prevent entry of dusts, chips and ribbon. to sewers and public waters. Notify authorities if any material enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid. Avoid generation of dust during clean-up of spills. Do not use compressed air for cleanup.

Methods for Cleaning Up: Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal. Do not use compressed air cleanup.

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Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Product dust is combustible. Use care during processing to minimize generation of dust. Welding, cutting, or processing this material may release dust or fumes that are hazardous, this material is considered an article under normal conditions of use. Inhalation of metal dusts and fumes may cause a condition commonly known as metal fume fever with symptoms which resemble influenza. Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur. Avoid skin and eye contact with dusts to prevent mechanical irritation

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in dry protected location to prevent product oxidation.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Corrosive substances in prolonged contact with metals may produce flammable hydrogen gas. Water (dust/molten form).

Special Rules on Packaging: Store in a closed container.

Specific End Use(s)

For professional use only. Tire bead wire.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Carbon (7440-44-0) | | |
|-------------------------|---|--|
| Mexico | OEL TWA (mg/m ³) | 2 mg/m ³ (dust) |
| Manganese (7439-96-5) | | |
| Mexico | OEL TWA (mg/m ³) | 0.2 mg/m ³ 1 mg/m ³ (fume) |
| Mexico | OEL STEL (mg/m ³) | 3 mg/m ³ (fume) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.02 mg/m ³ (respirable fraction) 0.1 mg/m ³ (inhalable fraction) |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 5 mg/m ³ (fume) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ (fume) |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 3 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 500 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| Manitoba | OEL TWA (mg/m ³) | 0.02 mg/m ³ (respirable fraction) |
| New Brunswick | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.02 mg/m ³ (respirable fraction) |
| Nova Scotia | OEL TWA (mg/m ³) | 0.02 mg/m ³ (respirable fraction) |
| Nunavut | OEL Ceiling (mg/m ³) | 5 mg/m ³ |
| Nunavut | OEL STEL (mg/m ³) | 3 mg/m ³ (fume) |
| Nunavut | OEL TWA (mg/m ³) | 1 mg/m ³ (fume) |
| Northwest Territories | OEL Ceiling (mg/m ³) | 5 mg/m ³ |
| Northwest Territories | OEL STEL (mg/m ³) | 3 mg/m ³ (fume) |
| Northwest Territories | OEL TWA (mg/m ³) | 1 mg/m ³ (fume) |
| Ontario | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.02 mg/m ³ (respirable fraction) |

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| | | |
|------------------------------------|--------------------------------------|---|
| Québec | VEMP (mg/m ³) | 0.2 mg/m ³ (total dust and fume) |
| Saskatchewan | OEL STEL (mg/m ³) | 0.6 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| Yukon | OEL Ceiling (mg/m ³) | 5 mg/m ³ |
| Silicon (7440-21-3) | | |
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ (inhalable fraction) |
| Mexico | OEL STEL (mg/m ³) | 20 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (total dust) |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 10 mg/m ³ (total dust) |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 30 mppcf |
| Copper (7440-50-8) | | |
| Mexico | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) 1 mg/m ³ (dust and mist) |
| Mexico | OEL STEL (mg/m ³) | 2 mg/m ³ (fume) 2 mg/m ³ (dust and mist) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume) |
| USA IDLH | US IDLH (mg/m ³) | 100 mg/m ³ (dust, fume and mist) |
| Alberta | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| British Columbia | OEL TWA (mg/m ³) | 1 mg/m ³ (dust and mist) |
| Manitoba | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| New Brunswick | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Nova Scotia | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Nunavut | OEL STEL (mg/m ³) | 0.6 mg/m ³ (fume) |
| Nunavut | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Northwest Territories | OEL STEL (mg/m ³) | 0.6 mg/m ³ (fume) |
| Northwest Territories | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Ontario | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Québec | VEMP (mg/m ³) | 0.2 mg/m ³ (fume) |
| Saskatchewan | OEL STEL (mg/m ³) | 0.6 mg/m ³ (fume) |
| Saskatchewan | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |
| Yukon | OEL STEL (mg/m ³) | 0.2 mg/m ³ (fume) |
| Yukon | OEL TWA (mg/m ³) | 0.2 mg/m ³ (fume) |

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| Tin (7440-31-5) | | |
|-------------------------|--------------------------------------|-----------------------|
| Mexico | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Mexico | OEL STEL (mg/m ³) | 4 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 2 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 100 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 2 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Manitoba | OEL TWA (mg/m ³) | 2 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Ontario | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Prince Edward Island | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Québec | VEMP (mg/m ³) | 2 mg/m ³ |
| Saskatchewan | OEL STEL (mg/m ³) | 4 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 2 mg/m ³ |

| Iron oxide (1309-37-1) | | |
|-------------------------------|--------------------------------------|---|
| Mexico | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Mexico | OEL STEL (mg/m ³) | 10 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ (respirable fraction) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 10 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ (dust and fume) |
| USA IDLH | US IDLH (mg/m ³) | 2500 mg/m ³ (dust and fume) |
| Alberta | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable) |
| British Columbia | OEL STEL (mg/m ³) | 10 mg/m ³ (fume) |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (total particulate matter containing no Asbestos and <1% Crystalline silica-total particulate) |
| Manitoba | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable fraction) |
| New Brunswick | OEL TWA (mg/m ³) | 5 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica, dust and fume) |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable fraction) |
| Nova Scotia | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable fraction) |
| Nunavut | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable) |
| Prince Edward Island | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable fraction) |
| Québec | VEMP (mg/m ³) | 5 mg/m ³ (dust and fume) |
| Saskatchewan | OEL STEL (mg/m ³) | 10 mg/m ³ (dust and fume) |
| Saskatchewan | OEL TWA (mg/m ³) | 5 mg/m ³ (dust and fume) |
| Yukon | OEL STEL (mg/m ³) | 10 mg/m ³ (fume) |
| Yukon | OEL TWA (mg/m ³) | 5 mg/m ³ (fume) |

Exposure Controls

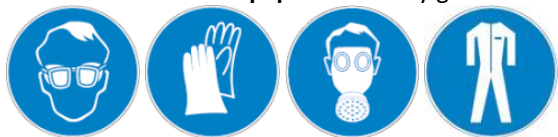
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Avoid dust production. Avoid creating or spreading dust. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

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Personal Protective Equipment: Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.



Materials for Protective Clothing: Wear suitable protective clothing.

Hand Protection: Wear chemically resistant protective gloves. If material is hot, wear thermally resistant protective gloves.

Eye Protection: Chemical goggles or face shield. Face shield. Welders should wear goggles or safety glasses with sideshields that comply with ANSI Z87.1 under welding helmets and always wear goggles or other suitable eye protection when gas welding or oxygen cutting.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. Wear approved mask.

Environmental Exposure Controls: Do not allow dust, chips or ribbons to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|---|--|
| Physical State | : Solid |
| Appearance | : Steel Wire Products are solid metal, shaped as wire of various diameters |
| Odor | : Not available |
| Odor Threshold | : Not available |
| pH | : Not available |
| Evaporation Rate | : Not available |
| Melting Point | : 2700 °F (1482 °C) |
| Freezing Point | : Not available |
| Boiling Point | : Not available |
| Flash Point | : Not available |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : Not available |
| Specific gravity / density | : 489.6 lbs/ft ³ |
| Specific Gravity | : Not available |
| Solubility | : Not available |
| Partition Coefficient: N-octanol/water | : Not available |
| Viscosity | : Not available |
| Explosive Properties | : Dust explosion hazard in air |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact |
| Explosion Data – Sensitivity to Static Discharge | : Not expected to present an explosion hazard due to static discharge |

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SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable at ambient temperature and under normal conditions of use.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Protect from moisture to prevent product oxidation. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Corrosive substances in prolonged contact with metals may produce flammable hydrogen gas. Water (when product is in dust/molten form).

Hazardous Decomposition Products: Under conditions of fire this material may produce: Metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust from physical alteration may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust from physical alteration may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion is not considered a potential route of exposure.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|---------------------------|---------------|
| Iron (7439-89-6) | |
| LD50 Oral Rat | 98.6 g/kg |
| Carbon (7440-44-0) | |
| LD50 Oral Rat | > 10000 mg/kg |
| Tin (7440-31-5) | |
| LD50 Oral Rat | 700 mg/kg |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

| | |
|--------------------------------|---|
| Manganese (7439-96-5) | |
| NOEC chronic fish | 3.6 mg/l (Exposure time: 96h; Species: Oncorhynchus mykiss) |
| Copper (7440-50-8) | |
| LC50 Fish 1 | <= 0.0068 (0.0068 - 0.0156) mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| EC50 Daphnia 1 | 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 Other Aquatic Organisms 1 | 0.0426 (0.0426 - 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static]) |
| LC 50 Fish 2 | 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Other Aquatic Organisms 2 | 0.031 (0.031 - 0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |

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| | |
|--|----------|
| | [static] |
|--|----------|

Persistence and Degradability

| | |
|--------------------------------------|----------------------------|
| Copper (7440-50-8) | |
| Persistence and Degradability | Not readily biodegradable. |

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Recycle where possible and/or dispose of spent material such as metals & metal-bearing waste and submerged arc welding (SAW) flux/slag appropriately.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT Not regulated for transport

In Accordance with IMDG Not regulated for transport

In Accordance with IATA Not regulated for transport

In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| |
|---|
| Iron (7439-89-6) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| |
|---|
| Carbon (7440-44-0) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| | |
|---|-------|
| Manganese (7439-96-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on United States SARA Section 313 | |
| SARA Section 313 - Emission Reporting | 1.0 % |

| |
|---|
| Silicon (7440-21-3) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| | |
|---|-------|
| Copper (7440-50-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on United States SARA Section 313 | |
| SARA Section 313 - Emission Reporting | 1.0 % |

| |
|---|
| Tin (7440-31-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

US State Regulations

| |
|---|
| Manganese (7439-96-5) |
| U.S. - Massachusetts - Right To Know List |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| U.S. - Pennsylvania - RTK (Right to Know) List |

| |
|---|
| Silicon (7440-21-3) |
| U.S. - Massachusetts - Right To Know List |

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|---|
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List |
| Copper (7440-50-8) |
| U.S. - Massachusetts - Right To Know List |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| U.S. - Pennsylvania - RTK (Right to Know) List |
| Tin (7440-31-5) |
| U.S. - Massachusetts - Right To Know List |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List |

Canadian Regulations

| | |
|---|---|
| Tire Bead Wire | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Iron (7439-89-6) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 4 - Flammable Solid |
| Carbon (7440-44-0) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Manganese (7439-96-5) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Silicon (7440-21-3) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Copper (7440-50-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Tin (7440-31-5) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/04/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|-------------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Comb. Dust | Combustible Dust |

Tire Bead Wire

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

| | |
|--------------|---|
| Flam. Sol. 1 | Flammable solids Category 1 |
| Self-heat. 1 | Self-heating substances and mixtures Category 1 |
| H228 | Flammable solid |
| | May form combustible dust concentrations in air |
| H251 | Self-heating: may catch fire |
| H400 | Very toxic to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

Party Responsible for the Preparation of This Document

National Standard T 405-377-5050

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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