1. Identification

Product identifier
Steel Products

Other means of identification

Synonyms
Merchant, Rebar & SBQ Steel Grades: 10XX, 11XX, 12XX, 13XX, 15XX, 4XXX, 5XXX, 6XXX, 7XXX, 86XX, 87XX, 88XX, 92XX, 93XX, 63XX

Recommended use
Steel Products for Manufacturing Industry

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information

Company name
Steel Dynamics® Engineered BAR Products

Address
8000 N County Road 225 E
Pittsboro, IN 46167
US

Telephone
317-892-7000

E-mail
Not available.

Contact person
Sales Dept.

Emergency phone number
317-892-7000

2. Hazard(s) identification

Physical hazards
Not classified.

Health hazards
Not classified.

OSHA defined hazards
Not classified.

Label elements

Hazard symbol
None.

Signal word
None.

Hazard statement
None.

Precautionary statement

Prevention
Observe good industrial hygiene practices.

Response
Wash skin with soap and water.

Storage
Store away from incompatible materials.

Disposal
Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
In its manufactured and shipped state, this product is considered non-hazardous. Processing may generate hazardous fumes and dusts.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>75 - 99</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>&lt; 14</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>&lt; 4</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>&lt; 1.5</td>
</tr>
<tr>
<td>Carbon</td>
<td>1333-86-4</td>
<td>&lt; 1.2</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Iron oxide is formed at temperatures above the melting point. The product is an alloy. At temperatures above the melting point steel products may liberate fumes containing oxides of iron and alloying elements.

4. First-aid measures

**Inhalation**
In case of inhalation of fumes from heated product: Move into fresh air and keep at rest. Get medical attention if symptoms persist. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration.

**Skin contact**
Wash skin with soap and water. In case of burns with hot metal, rinse with plenty of cold water. If burns are severe, consult a physician. If skin irritation or an allergic skin reaction develops, get medical attention.

**Eye contact**
Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.

**Ingestion**
Solid steel: Not applicable. Dust: Get medical attention if any discomfort continues.

Most important symptoms/effects, acute and delayed
High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in the mouth, dryness, and irritation of the throat, followed by weakness, muscle pain, fever, and chills.

5. Fire-fighting measures

**Suitable extinguishing media**
No unusual fire or explosion hazards noted. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
No unusual fire or explosion hazards noted.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Cold solid metal: No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product. Hot metal: Avoid contact with hot material. Wear protective clothing as described in Section 8 of this safety data sheet.

**Methods and materials for containment and cleaning up**
Not applicable. Collect for recycling.

**Environmental precautions**
No specific precautions.

7. Handling and storage

**Precautions for safe handling**
Oil coating can make material slippery. (If applied) Avoid contact with sharp edges and hot surfaces. Use appropriate gloves and tools to ensure safe handling. Use work methods which minimize dust/fume production. Observe safety measures suited to the coating(s) when handling, cutting or melting. Follow the recommendations in ANSI Z49.1, Safety in welding and cutting (ANSI=American National Standard Institute). Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**
Store away from incompatible materials, such as strong acids and oxidizers (See Section 10).

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td></td>
<td></td>
</tr>
<tr>
<td>238.9400-48-4</td>
<td>TWA</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>TWA</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>TWA</td>
<td>0.01 mg/m3</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>TWA</td>
<td>0.05 mg/m3</td>
</tr>
</tbody>
</table>
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon (CAS 1333-86-4)</td>
<td>PEL</td>
<td>3.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>PEL</td>
<td>1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>PEL</td>
<td>0.1 mg/m³</td>
<td>Dust and fume.</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>PEL</td>
<td>1 mg/m³</td>
<td>Dust and mist.</td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>Ceiling</td>
<td>5 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>PEL</td>
<td>1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>TWA</td>
<td>0.01 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Carbon (CAS 1333-86-4)</td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>TWA</td>
<td>0.02 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>TWA</td>
<td>1.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Ceiling</td>
<td>0.002 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Carbon (CAS 1333-86-4)</td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Dust and fume.</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Dust and mist.</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>STEL</td>
<td>3 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Fume.</td>
</tr>
</tbody>
</table>

Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>35 µg/l</td>
<td>Inorganic arsenic, plus methylated metabolites, as As</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>300 µg/l</td>
<td>Lead</td>
<td>Blood</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Exposure guidelines

Adequate ventilation should be provided so that exposure limits are not exceeded. Use local exhaust when welding, burning, sawing, brazing, grinding or machining to prevent excessive dust or fume exposure.

Individual protection measures, such as personal protective equipment

**Eye/face protection**
Use of safety glasses or goggles is required for welding, burning, sawing, brazing, grinding or machining operations. In addition to safety glasses or goggles, a welding helmet with appropriate shaded shield is required during welding, burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

**Skin protection**
- **Hand protection**
Wear protective gloves. While handling product and/or steel packing material wear cut resistant gloves and sleeves for laceration protection.
- **Other**
Wear suitable protective clothing.
Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards

When material is heated, wear gloves to protect against thermal burns. Thermally protective apron and long sleeves are recommended when volume of hot material is significant.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state: Solid.
Form: 7x7" Billets, 10x14" Blooms, Sized round bars, Sized round cornered square bars.
Color: Metallic gray.
Odor: None.
Odor threshold: Not available.

Melting point/freezing point: 2750 °F (1510 °C)

Flash point: Not available.
Evaporation rate: Not available.

Stability and reactivity

Stable at normal conditions.
This product is stable under expected conditions of use.
React with acids and oxidizing agents.
Contact with incompatible materials. Acids. Oxidizing agents.
Strong acids. Oxidizing agents.
At elevated temperatures: Acrid fumes. Metallic fumes.
Strong Acid Contact: Hydrogen.
11. Toxicological information

Information on likely routes of exposure

**Inhalation**
No inhalation hazard under normal conditions. Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts of metal oxides. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever.

**Skin contact**
Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate skin. Skin contact may aggravate an existing dermatitis. Contact with hot material can cause thermal burns which may result in permanent damage.

**Eye contact**
Under normal conditions of intended use, this material does not pose a risk to health. Contact with hot material can cause thermal burns which may result in permanent damage. Grinding and sanding this product may generate dust. Dust may irritate the eyes.

**Ingestion**
Solid steel: Not relevant, due to the form of the product. However, ingestion of dusts generated during working operations may cause nausea and vomiting.

Symptoms related to the physical, chemical and toxicological characteristics
Exposed individuals may experience eye tearing, redness, and discomfort. May dry the skin leading to discomfort and dermatitis. High concentrations of dust may irritate throat and respiratory system and cause coughing. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

**Acute toxicity**
Inhalation of dust (generated at high temperatures only) may cause mild irritation of the upper respiratory tract. Prolonged contact may cause redness, irritation and cracking. Welding, cutting and metalizing can generate ozone. Ozone can cause irritation of eyes, nose and respiratory tract.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>145 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>763 mg/kg</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 2.77 mg/l, 4 hours</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>481 mg/kg</td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50/LC90</td>
<td>Rat</td>
<td>&gt; 1500 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>9000 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Dust may irritate skin.

**Serious eye damage/eye irritation**
Dust may irritate the eyes.

**Respiratory or skin sensitization**
No data available.

**Respiratory sensitization**
No data available.

**Skin sensitization**
Contains nickel: May cause an allergic skin reaction.

**Germ cell mutagenicity**
No data available.

**Carcinogenicity**
Nickel is listed by IARC (Group 2B) and NTP. A residual chrome VI compound from the surface coating is water soluble and is carcinogenic. Chromium VI compounds are regarded as human carcinogens by IARC, NTP, OSHA and ACGIH.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>1 Carcinogenic to humans.</td>
</tr>
<tr>
<td>Carbon (CAS 1333-86-4)</td>
<td>2B Possibly carcinogenic to humans.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>3 Not carcinogenic to humans.</td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>2B Possibly carcinogenic to humans.</td>
</tr>
</tbody>
</table>
Lead (CAS 7439-92-1) 2B Possibly carcinogenic to humans. Ni ckel (CAS 7440-02-0) 1 Carcinogenic to humans.

**NTP Report on Carcinogens**

- Arsenic (CAS 7440-38-2) Known To Be Human Carcinogen.
- Nickel (CAS 7440-02-0) Reasonably Anticipated to be a Human Carcinogen.


Arsenic (CAS 7440-38-2) Cancer

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>10 - 100 mg/l, 96 Hours</td>
</tr>
<tr>
<td>Iron (CAS 7439-89-6)</td>
<td>LC50 Channel catfish (Ictalurus punctatus)</td>
<td>&gt; 500 mg/l, 96 Hours</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Rainbow trout, donaldson trout (Oncorhynhus mykiss)</td>
<td>1.17 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

**Ecotoxicity**

- Chronic effects
  
  Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin. The ingredients of the alloy are bound within the product and release is not expected under normal conditions.

Chronic inhalation of high concentrations of iron oxide fumes or dust may lead to benign pneumonoconiosis (siderosis). Inhalation of high concentrations of iron oxide may possibly enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens. Exposure to manganese fume/dust can affect the central nervous system (apathy, drowsiness, weakness and other chronic symptoms such as postural tremors). Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

**12. Ecological information**

- The environmental hazard of the product is considered to be limited.

**Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
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<td>Rainbow trout, donaldson trout (Oncorhynhus mykiss)</td>
<td>1.17 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available on bioaccumulation.

**Mobility in soil**

Not relevant, due to the form of the product.

**Other adverse effects**

The product is not expected to be hazardous to the environment.

**13. Disposal considerations**

**Disposal instructions**

Dispose waste and residues in accordance with applicable federal, state, and local regulations. Recover and recycle, if practical.

**Hazardous waste code**

Not applicable.

**Waste from residues / unused products**

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and recycle, if practical.

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information
US federal regulations
Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazard category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Cancer</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Liver</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Central nervous system</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Skin</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Kidney</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Respiratory irritation</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Blood</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Nervous system</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>Acute toxicity</td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substance List (40 CFR 302.4)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazard category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
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</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>LISTED</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>LISTED</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazard category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td>No</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>No</td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
<td>No</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>No</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>No</td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>No</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>&lt; 14</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>&lt; 4</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>&lt; 1.5</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Cobalt</td>
<td>7440-48-4</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (CAS 7440-38-2)</td>
<td></td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td></td>
</tr>
<tr>
<td>Cobalt (CAS 7440-48-4)</td>
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<td></td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td></td>
</tr>
</tbody>
</table>
WARNING: This product contains chemical(s) known to the State of California to cause cancer.

**US. Massachusetts RTK - Substance List**
Arsenic (CAS 7440-38-2)
Carbon (CAS 1333-86-4)
Chromium (CAS 7440-47-3)
Cobalt (CAS 7440-48-4)
Copper (CAS 7440-50-8)
Lead (CAS 7439-92-1)
Manganese (CAS 7439-96-5)
Nickel (CAS 7440-02-0)

**US. New Jersey Worker and Community Right-to-Know Act**
Arsenic (CAS 7440-38-2)
Carbon (CAS 1333-86-4)
Chromium (CAS 7440-47-3)
Copper (CAS 7440-50-8)
Lead (CAS 7439-92-1)
Manganese (CAS 7439-96-5)
Nickel (CAS 7440-02-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**
Arsenic (CAS 7440-38-2)
Carbon (CAS 1333-86-4)
Chromium (CAS 7440-47-3)
Cobalt (CAS 7440-48-4)
Copper (CAS 7440-50-8)
Lead (CAS 7439-92-1)
Manganese (CAS 7439-96-5)
Nickel (CAS 7440-02-0)

**US. Rhode Island RTK**
Arsenic (CAS 7440-38-2)
Chromium (CAS 7440-47-3)
Cobalt (CAS 7440-48-4)
Copper (CAS 7440-50-8)
Lead (CAS 7439-92-1)
Manganese (CAS 7439-96-5)
Nickel (CAS 7440-02-0)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**
Arsenic (CAS 7440-38-2)
Carbon (CAS 1333-86-4)
Cobalt (CAS 7440-48-4)
Lead (CAS 7439-92-1)
Nickel (CAS 7440-02-0)

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Country(s) or region | Inventory name | On inventory (yes/no) |
--- | --- | --- |
Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 17-June-2015
Revision date: -
Version #: 01

Further information:
NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS® ratings:
- Health: 2*
- Flammability: 0
- Physical hazard: 0

NFPA ratings:

Disclaimer
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