1. Identification

Product identifier: Steel Joists, Joist Girders, Bridging & Accessories (Painted, Unpainted, and/or Galvanized)

Other means of identification: Not available.

Recommended use: Steel Fabricated Parts.

Recommended restrictions: None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer/Supplier: New Millennium Building Systems
1992 NW Bascom Norris Drive, Lake City, FL 32055
Telephone: 386-466-1300

---------------------------------------------------------------
6115 County Road 42, Butler, IN 46721
Telephone: 260-868-6000

---------------------------------------------------------------
100 Diuguids Lane, Salem, VA 24153
540-389-0211

---------------------------------------------------------------
New Millennium Building Systems
Carr. Panamericana 9920
Col. Puente Alto
C.P. 32695
Ciudad Juarez
Chihuahua, Mexico

---------------------------------------------------------------
3565 US Highway 32 North, Hope, AR 71801
Telephone: 870-722-4100

---------------------------------------------------------------
8200 Woolery Way, Fallon, NV 89406
Telephone: 775-867-2130

Contact Person: Safety Department
Emergency: (800)-424-9300

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): Not classified.

Supplemental information

Hazard statement: 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>94-99</td>
</tr>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>Concentration</td>
</tr>
<tr>
<td>--------------------</td>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>0.25-1.65</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>0.01-1.1</td>
</tr>
<tr>
<td>Coating(s)</td>
<td>-</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>0 - 0.99</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0-0.9</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>0.03 - 0.75</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>0.05 - 0.5</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
<td>0.01 - 0.2</td>
</tr>
<tr>
<td>Sulphur</td>
<td>7704-34-9</td>
<td>0.001 - 0.08</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0 - 0.07</td>
</tr>
<tr>
<td>White phosphorus</td>
<td>7723-14-0</td>
<td>&lt;= 0.06</td>
</tr>
<tr>
<td>Aluminium</td>
<td>7429-90-5</td>
<td>0.001 - 0.01</td>
</tr>
<tr>
<td>Iron oxide**</td>
<td>1309-37-1</td>
<td>0</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. This product may contain a coating at a concentration below 1.0% by weight. MSDS’s for specific coatings are available upon request.

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**

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.

5. Fire-fighting measures

**Suitable extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**

Not applicable.

**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 MSDS 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**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Collect for recycling.

**Environmental precautions**

No specific precautions.
7. Handling and storage

Precautions for safe handling

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. Do not breathe fumes and dusts. The organic material(s) of the coating(s) may generate fumes or gases when heated or melted. 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).

Conditions for safe storage, including any incompatibilities

Store in a dry place. Store away from: Strong oxidizing agents. Acids.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>Aluminium (CAS 7429-90-5)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Carbon (CAS 7440-44-0)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>PEL</td>
<td>1 mg/m³</td>
<td>Total dust.</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>Iron oxide** (CAS 1309-37-1)</td>
<td>PEL</td>
<td>10 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>Ceiling</td>
<td>5 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Molybdenum (CAS 7439-98-7)</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>PEL</td>
<td>1 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Silicon (CAS 7440-21-3)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>White phosphorus (CAS 7723-14-0)</td>
<td>PEL</td>
<td>0.1 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon (CAS 7440-44-0)</td>
<td>TWA</td>
<td>15 millions of particle</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>Aluminium (CAS 7429-90-5)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Carbon (CAS 7440-44-0)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Dust and mist.</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Iron oxide** (CAS 1309-37-1)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</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>TWA</td>
<td>0.2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Molybdenum (CAS 7439-98-7)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>White phosphorus (CAS 7723-14-0)</td>
<td>TWA</td>
<td>1.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium (CAS 7429-90-5)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>

Steel Joists, Joist Girders, Bridging & Accessories (Painted, Unpainted, and/or Galvanized) SDS US 913384 Version #: 02 Revision date: 07-June-2013 Issue date: 04-June-2013
### Recommended exposure limit (REL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon (CAS 7440-44-0)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Welding fume or pyrophoric powder.</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total</td>
</tr>
<tr>
<td>Copper (CAS 7440-50-8)</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td>Iron oxide** (CAS 1309-37-1)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Dust and mist.</td>
</tr>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Dust and fume.</td>
</tr>
<tr>
<td>Nickel (CAS 7440-02-0)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Silicon (CAS 7440-21-3)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td>White phosphorus (CAS 7723-14-0)</td>
<td>TWA</td>
<td>0.015 mg/m³</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Short Term Exposure Limit (STEL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese (CAS 7439-96-5)</td>
<td>STEL</td>
<td>3 mg/m³</td>
<td>Fume.</td>
</tr>
</tbody>
</table>

### Biological limit values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (CAS 7439-92-1)</td>
<td>300 micrograms/liter</td>
<td>Lead</td>
<td>Blood</td>
<td>*</td>
</tr>
</tbody>
</table>

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

### Exposure guidelines

**Iron oxide is formed at temperatures above the melting point.

**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.

### Physical and chemical properties

**Appearance**: Massive, solid metal.

**Physical state**: Solid.

**Form**: Solid.

**Color**: Gray (painted), metallic gray (unpainted or galvanized).

**Odor**: None.

**Odor threshold**: Not available.

**pH**: Not applicable.

**Melting point/freezing point**: 2750 °F (1510 °C) / Not applicable.

**Initial boiling point and boiling range**: Not applicable.
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%) Not applicable.
- Flammability limit - upper (%) Not applicable.
- Explosive limit - lower (%) Not applicable.
- Explosive limit - upper (%) Not applicable.

Vapor pressure Not applicable.
Vapor density Not applicable.
Relative density 7.9
Solubility(ies) Insoluble in water.
Partition coefficient (n-octanol/water) Not applicable.
Auto-ignition temperature Not applicable.
Decomposition temperature Not available.

Viscosity Not applicable.
Other information
- Solubility (other) Not available.

10. Stability and reactivity
Reactivity Stable at normal conditions.
Chemical stability This product is stable under expected conditions of use.
Possibility of hazardous reactions Will not occur.
Conditions to avoid Contact with incompatible materials. Avoid contact with acids and oxidizing substances.
Incompatible materials Strong acids. Oxidizing agents.
Hazardous decomposition products At elevated temperatures: Acrid fumes. Metal oxides. Inorganic compounds.
Strong Acid Contact: Hydrogen, Inorganic compounds.

11. Toxicological information
Information on likely routes of exposure
- 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.
- 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.
- 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.

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.
Components | Species | Test Results
--- | --- | ---
Carbon (CAS 7440-44-0) | Acute | Rat > 10000 mg/kg
Oral LD50 | | |
Iron (CAS 7439-89-6) | Acute | Rat 30 g/kg
Oral LD50 | | |
Silicon (CAS 7440-21-3) | Acute | Rat 3160 mg/kg
Oral LD50 | | |
Skin corrosion/irritation | Dust may irritate skin. |
Serious eye damage/eye irritation | Dust may irritate the eyes. |
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 | Chromium (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans. |
Iron oxide** (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans. |
Lead (CAS 7439-92-1) 2B Possibly carcinogenic to humans. |
Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans. |
NTP Report on Carcinogens | Nickel (CAS 7440-02-0) Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. |
Reproductive toxicity | No data available. |
Specific target organ toxicity - single exposure | No data available. |
Specific target organ toxicity - repeated exposure | No data available. |
Aspiration hazard | Not relevant, due to the form of the product. |
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 pneumoconiosis (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
Ecotoxicity | The environmental hazard of the product is considered to be limited. |
Components | Species | Test Results
--- | --- | ---
Copper (CAS 7440-50-8) | Aquatic | Fish LC50 Striped bass (Morone saxatilis) 0.024 mg/l, 96 hours |
Iron (CAS 7439-89-6) | Aquatic | Fish LC50 Channel catfish (Ictalurus punctatus) > 500 mg/l, 96 hours |
Lead (CAS 7439-92-1) | LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss) 1.17 mg/l, 96 Hours |
Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Molybdenum (CAS 7439-98-7)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
<td>800 mg/l, 96 hours</td>
</tr>
<tr>
<td><strong>White phosphorus (CAS 7723-14-0)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td>Water flea (Daphnia magna)</td>
<td>0.025 - 0.037 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Bluegill (Lepomis macrochirus)</td>
<td>0.002 - 0.006 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
None known.

13. Disposal considerations

Disposal instructions
Dispose waste and residues in accordance with applicable federal, state, and local regulations.

Local disposal regulations
Dispose in accordance with local regulations.

Hazardous waste code
Not regulated.

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 a hazardous material by DOT.

IATA
Not regulated as a dangerous good.

IMDG
Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
LEAD (CAS 7439-92-1) Reproductive toxicity Central nervous system Kidney Blood Acute toxicity

CERCLA Hazardous Substance List (40 CFR 302.4)
Chromium (CAS 7440-47-3) LISTED
Copper (CAS 7440-50-8) LISTED
Lead (CAS 7439-92-1) LISTED
Manganese (CAS 7439-96-5) LISTED
Nickel (CAS 7440-02-0) LISTED
White phosphorus (CAS 7723-14-0) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
**SARA 302 Extremely hazardous substance**
No

**SARA 311/312 Hazardous chemical**
No

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
- Chromium (CAS 7440-47-3)
- Lead (CAS 7439-92-1)
- Manganese (CAS 7439-96-5)
- Nickel (CAS 7440-02-0)
- White phosphorus (CAS 7723-14-0)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated.

**Safe Drinking Water Act (SDWA)**
Not regulated.

**Food and Drug Administration (FDA)**
Not regulated.

**US state regulations**

WARNING: This product contains chemical(s) known to the State of California to cause cancer.

**US. Massachusetts RTK - Substance List**
- Aluminium (CAS 7429-90-5)
- Chromium (CAS 7440-47-3)
- Copper (CAS 7440-50-8)
- Iron oxide** (CAS 1309-37-1)
- Lead (CAS 7439-92-1)
- Manganese (CAS 7439-96-5)
- Molybdenum (CAS 7439-98-7)
- Nickel (CAS 7440-02-0)
- Silicon (CAS 7440-21-3)
- Sulphur (CAS 7704-34-9)
  - White phosphorus (CAS 7723-14-0)

**US. New Jersey Worker and Community Right-to-Know Act**
- Aluminium (CAS 7429-90-5) 500 lbs
- Chromium (CAS 7440-47-3) 500 lbs
- Copper (CAS 7440-50-8) 500 lbs
- Lead (CAS 7439-92-1) 500 lbs
- Manganese (CAS 7439-96-5) 500 lbs
- Nickel (CAS 7440-02-0) 500 lbs
  - White phosphorus (CAS 7723-14-0) 100 lbs

**US. Pennsylvania RTK - Hazardous Substances**
- Aluminium (CAS 7429-90-5)
- Chromium (CAS 7440-47-3)
- Copper (CAS 7440-50-8)
- Iron oxide** (CAS 1309-37-1)
- Lead (CAS 7439-92-1)
- Manganese (CAS 7439-96-5)
- Molybdenum (CAS 7439-98-7)
- Nickel (CAS 7440-02-0)
- Silicon (CAS 7440-21-3)
- Sulphur (CAS 7704-34-9)
  - White phosphorus (CAS 7723-14-0)

**US. Rhode Island RTK**
- Aluminium (CAS 7429-90-5)
- Chromium (CAS 7440-47-3)
- Copper (CAS 7440-50-8)
- Iron oxide** (CAS 1309-37-1)
- Lead (CAS 7439-92-1)
- Manganese (CAS 7439-96-5)
- Nickel (CAS 7440-02-0)
  - White phosphorus (CAS 7723-14-0)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**
- 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>
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</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
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Steel Joists, Joist Girders, Bridging & Accessories (Painted, Unpainted, and/or Galvanized)
SDS US

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

<table>
<thead>
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<tr>
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<td>02</td>
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Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. MSDS’s for specific coatings are available upon request.