SAFETY DATA SHEET

MATERIAL IDENTIFICATION AND USE

MATERIAL NAME: STEEL
SYNONYMS: Includes all Sheet products, Plate, Strip, Bar, Slab, Ingot, Structural shapes and Tubular Products.

SUPPLIER: RUSSEL METALS INC.
ADDRESS: 6600 FINANCIAL DRIVE, MISSISSAUGA, ONTARIO, CANADA. L5N 7J6.
TEL: 905-819-7295
FAX: 905-819-7262
FORM #: SDS-01-2014
DATE: AUGUST 2014

1. PRODUCT INFORMATION

GHS PRODUCT IDENTIFIER: STEEL
OTHER MEANS OF IDENTIFICATION: Includes all Sheet products, Plate, Strip, Bar, Slab, Ingot, Structural shapes and Tubular Products
RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE: Solid steel products, various forms and uses. Manufacture of articles.
SUPPLIER’S DETAILS: RUSSEL METALS INC., 6600 FINANCIAL DRIVE, MISSISSAUGA, ONTARIO, CANADA. L5N 7J6
EMERGENCY PHONE NUMBER: 905-819-7295

2. HAZARDS IDENTIFICATION

CLASSIFICATION: Steel is considered an “article” and not hazardous in its solid form. However, certain process such as cutting, milling, grinding, melting and welding could result in some hazardous materials being emitted. The GHS Classification below pertains to these emitted products during these processes.

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>HAZARD</th>
<th>GHS CLASSIFICATION</th>
<th>HAZARD STATEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carcinogenicity</td>
<td>Category – 18</td>
<td>May cause cancer</td>
</tr>
<tr>
<td></td>
<td>Respiratory Sensitizer</td>
<td>Category – 1</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td></td>
<td>STOT [repeated exposure]</td>
<td>Category – 1</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td></td>
<td>Acute Oral Toxicity</td>
<td>Category – 4</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>Skin Sensitizer</td>
<td>Category – 1</td>
<td>May cause allergic skin reaction.</td>
</tr>
<tr>
<td></td>
<td>STOT [single exposure]</td>
<td>Category – 3</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>N/A</td>
<td>Eye Irritation</td>
<td>Category – 28</td>
<td>Causes eye irritations.</td>
</tr>
</tbody>
</table>

PRECAUTIONARY STATEMENTS:

<table>
<thead>
<tr>
<th>PREVENTION</th>
<th>FIRST AID RESPONSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not breathe dust/fume/gas/vapour/spray. Use in a well-ventilated area. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read &amp; understood. Contaminated work clothing should not be allowed out of the workplace.</td>
<td>EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if eye irritation persists. SKIN: Wash affected area with mild soap and water. Seek medical attention if skin irritation persists. INHALATION: Remove to fresh air. Check for clear airway, breathing and presence of pulse. If necessary administer CPR. Consult a physician immediately. INGESTION: Dust may irritate mouth and gastrointestinal tract. If ingested, seek medical attention promptly.</td>
</tr>
<tr>
<td>Store away from acids and incompatible materials. Store in accordance with federal/provincial/state or local regulations.</td>
<td>STORAGE</td>
</tr>
<tr>
<td>Steel scrap should be recycled whenever possible. Otherwise, dispose of in accordance with applicable federal/provincial/state or local regulations.</td>
<td></td>
</tr>
</tbody>
</table>

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): Not applicable.

NOTES:
• STOT – Specific Target Organ Toxicity
3. COMPOSITION/INFORMATION ON INGREDIENTS

BASE METAL  [ALL VALUES ARE EXPRESSED AS WEIGHT PERCENT AND ARE APPROXIMATES]

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>CARBON &amp; H.S.L.A. STEELS</th>
<th>ELECTRICAL STEELS</th>
<th>LEADED &amp; LOW ALLOY STEELS</th>
<th>RAILS &amp; TIE PLATES</th>
<th>TUBULAR PROD.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRON</td>
<td>7439-89-6</td>
<td>91-99</td>
<td>91-99</td>
<td>92-96</td>
<td>94-96</td>
<td>94-96</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>&lt;0.1</td>
<td>&lt;2.2</td>
<td>&lt;2.2</td>
<td>&lt;1.7</td>
<td>&lt;1.7</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>&lt;0.1</td>
<td>&lt;1.7</td>
<td>&lt;1.7</td>
<td>&lt;1.6</td>
<td>&lt;0.7</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>&lt;1.0</td>
<td>&lt;2.1</td>
<td>&lt;2.1</td>
<td>&lt;0.15</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>&lt;0.1</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Phosphorous</td>
<td>7723-14-0</td>
<td>&lt;0.25</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>&lt;0.12</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>--</td>
<td>--</td>
<td>&lt;0.35</td>
<td>--</td>
<td>&lt;1.0</td>
</tr>
</tbody>
</table>

NOTES:
- For exact composition, refer to analysis or specifications.

METALLIC AND NON-METALLIC COATINGS

<table>
<thead>
<tr>
<th>GALVANIZE</th>
<th>GALVANNEAL</th>
<th>C2 COATING ELECTRICAL</th>
<th>C3 COATING ELECTRICAL</th>
<th>CSA COATING ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot dipped Zinc [CAS 7440-66-6] coating. Coating weights range from 15-400 g/m² per side. May be chemically passivated with a Chromium compound which leaves a residual Cr level of 11-40 mg/m² per side. Petroleum based rust preventative oils are applied to oiled product. Typical oil coating weights range from 1.1-5.4 g/m² per side.</td>
<td>Glass film composed of Magnesium ortho-silicate formed during high temperature anneal</td>
<td>Oil modified polyester resin varnish film</td>
<td>An inorganic iron-silicate complex that is heat and oil resistant with good insulating properties.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GALVALUME</th>
<th>DRY-LUBE</th>
<th>PRE-LUBE</th>
<th>LUBE OIL</th>
<th>SLUSHING OIL</th>
<th>VANISHING OIL</th>
<th>PRECOATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot dipped Zinc [CAS 7440-66-6] 43% and Aluminum [CAS 7429-90-5] 53% coating. Coating weights range from 50-150 g/m² per side. May also be passivated or oiled similar to Galvanize material.</td>
<td>Mixture of borate and carbonate soap lubricants for metal forming.</td>
<td>Petroleum based oil coating used for metal forming.</td>
<td>Lubricating protective petroleum based oil.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIN PLATE</th>
<th>SLUSHING OIL</th>
<th>VANISHING OIL</th>
<th>PRECOATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electroplated with tin [CAS 7440-31-5] coating. Coating weights range from 0.9-1.5 g/m² per side. Treated with Chromium passivation solution which leaves a Chromium residue of 0.05-7.5 g/m² per side. May be coated with an edible oil to prevent scratching. Oil coating typically 0.1 micro inches thick.</td>
<td>Mineral oil based protective coating containing small quantities of anti-oxidants</td>
<td>Solvent applied petroleum oil protective coating leaving a wax-like protective coating.</td>
<td>Cured paint/resin film applied to sheet steel. Galvanized or Galvalume coated steel sheet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHROMIUM</th>
<th>ZINCROMETAL</th>
<th>PRIMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electroplated with Chromium [CAS 7440-47-3] coating. Coating weights range from 0.1-0.17 g/m² per side. May be coated with edible oil similar to tin plate.</td>
<td>Protective coating of zinc rich paint over a chromate based primer compound. Coating is applied to one side of strip. Typical coating weights range from 0.215-0.325 g/m².</td>
<td>Standard Shop Primer Coating for steel (#27452 Canam Grey), based on 10-20% light aliphatic naphthol solvent (CAS 64742-89-8), 5-10% petroleum distillates (CAS 68410-16-2) and 5-10% Stoddard solvent (CAS 8052-41-3).</td>
</tr>
</tbody>
</table>

NOTES: 1. Individual coating components are present at values below the reporting requirements of the WHMIS Ingredient Disclosure List.
2. Passivation Treatment (specifically ordered) for Zinc Coated Products may contain hexavalent chromium as a portion of the chromium and chromium oxide corrosion protection coating. In these cases, the actual concentration of hexavalent present varies with steel gauge and coating weight.

4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF EYE IRRITATION PERSISTS.

SKIN CONTACT: MAINTAIN GOOD PERSONAL HYGIENE. WASH AFFECTED AREA WITH MILD SOAP AND WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION PERSISTS.

INHALATION: REMOVE TO FRESH AIR. CHECK FOR CLEAR AIRWAY, BREATHING AND PRESENCE OF PULSE. IF NECESSARY ADMINISTER CPR. CONSULT A PHYSICIAN IMMEDIATELY.

INGESTION: RARE IN INDUSTRY. DUST MAY IRRITATE MOUTH AND GASTROINTESTINAL TRACT. IF INGESTED, SEEK MEDICAL ATTENTION PROMPTLY.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Steel as sold and shipped is not likely to present an acute or chronic health effects. However, during processing (cutting, milling, grinding, melting or welding) emitted byproducts may cause irritation, difficulty in breathing, coughing or wheezing. May cause allergic skin reactions.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Notes to physician: May cause sensitization by skin contact or inhalation. Treat symptomatically.

5. FIRE FIGHTING MEASURES
SUITABLE EXTINGUISHING MEDIA: Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials. Do not use water on molten metal.

SPECIFIC HAZARDS ARISING FROM MATERIAL: Not applicable for solid product.

HAZARDOUS COMBUSTION PRODUCTS: At temperatures above the melting point, fumes containing metal oxides and other alloying elements may be liberated.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS: Firefighters should wear self-contained NIOSH-approved breathing apparatus and full protective clothing.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: None.

SENSITIVITY TO STATIC DISCHARGE: N/A.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Not applicable to steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean-up personnel should be protected against contact with eyes and skin protection.

ENVIRONMENTAL PRECAUTIONS: Not applicable to steel in solid state.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Not applicable to steel in solid state. For spills involving fine dusts, remove by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid inhalation of dusts.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Not applicable to steel in solid state. Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust.

CONDITIONS FOR SAFE STORAGE: No special storage conditions for steel in solid state.

INCOMPATIBLE PRODUCTS: Store away from acids and incompatible materials.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

CONTROL PARAMETERS:

There are no exposure limits for steel. The exposure limit for iron-containing fumes has been established at 5 mg/m³ with ACGIH’s TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>TLV ACGIH (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>5.0 (Respirable)</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>0.2 (As inorganic Mn)</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0.5 (Metal &amp; Cr+3) 0.05 (Cr+6 Soluble) 0.01 (Cr+6 Insoluble)</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>1.5 (Metal) 0.2 (Insoluble) 0.1 (Soluble)</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1.0 (Dust) 0.2 (Fume)</td>
</tr>
<tr>
<td>Phosphorous</td>
<td>7723-14-0</td>
<td>0.1</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>7439-98-7</td>
<td>10.0 (Insoluble) 5.0 (Soluble)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0.05</td>
</tr>
</tbody>
</table>

NOTES:

- Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH - 2011) are 8-hour Time Weighted Average concentrations unless otherwise noted.

APPROPRIATE ENGINEERING CONTROLS: Provide general or local exhaust to minimize airborne concentrations during milling, grinding, melting and welding operations.

INDIVIDUAL PROTECTIVE MEASURES:

Dependent upon process being performed on material each operation must be addressed for suitable equipment.

GLOVES (Specify): Wear gloves as required EYES (Specify): Safety glasses or goggles as required.

CLOTHING (Specify): N/A FOOTWEAR (Specify): N/A

RESPIRATOR (Specify): If concentrations exceed established limits use NIOSH/MSHA approved particulate respirators [dust & fume or high efficiency dust fume] when grinding or welding.

OTHER (Specify): N/A

9. CHEMICAL AND PHYSICAL PROPERTIES

| PHYSICAL STATE: | Solid | APPEARANCE: | Silver Grey Metallic (Steel) |
10. STABILITY AND REACTIVITY

**REACTIVITY:**
Not determined for product in solid form.

**CHEMICAL STABILITY:**
Yes. Steel products are stable under normal storage and handling conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:**
Hazardous polymerization cannot occur.

**CONDITIONS TO AVOID:**
Contact with mineral acids will release flammable hydrogen gas. Dust formation.

**INCOMPATIBLE MATERIALS:**
Yes, strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**
Not Applicable.

11. TOXICOLOGICAL INFORMATION

**TOXICITY:**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>LD₅₀ ORAL</th>
<th>LD₅₀ DERMAL</th>
<th>LD₅₀ INHALATION</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>30,000 mg/kg Oral-Rat</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Manganese</td>
<td>9000 mg/kg Oral-Rat</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chromium</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel</td>
<td>&gt;9000 mg/kg Oral-Rat</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Copper</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Lead</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**LIKELY ROUTES OF ENTRY:**
None for steel in its natural solid state.

**EYES:**
High concentrations of dust may cause irritation to the eyes.

**SKIN:**
Prolonged skin contact with coated steel may cause skin irritation in sensitive individuals.

**INHALATION:**
Inhalation of metal particulate or elemental oxide fumes generated during welding, burning, grinding or machining may pose acute or chronic health effects.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**
None for steel in its natural solid state.

**EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**
MANGANESE & COPPER: Inhalation overexposure to manganese or copper (or zinc coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) which appear 4-6 hours after exposure with no long-term effects.

**EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:**
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - “confirmed human carcinogens” and metallic chromium under its Group 3 category - “not classifiable as to their carcinogenicity to humans”. Chromium metal is classified as carcinogenic by NTP.
NICKEL: IARC lists metallic nickel under its Group 2B category - “possibly carcinogenic to humans”. Nickel may cause skin sensitivity.
COBALT: Cobalt dust may result in an asthma-like condition (cough, shortness of breath). IARC lists metallic cobalt under its Group 2B category - “possibly carcinogenic to humans”.
IRON: Inhalation overexposure may cause a benign pneumoconiosis (siderosis) with few or no symptoms.
MANGANESE: Existing studies are inadequate to assess its carcinogenicity. Susceptible to Parkinson’s disease, metal fume fever and kidney damage.

**STOT (Single Exposure):**
No data

**STOT (Repeated Exposures):**
Respiratory system. Allergic skin reactions.

**MUTAGENICITY OF MATERIAL:**
N/A

**REPRODUCTIVE EFFECTS:**
N/A

**TERATOGENICITY OF MATERIAL:**
N/A

**CARCINOGENICITY OF MATERIAL:**
CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - “confirmed human carcinogens” and metallic chromium under its Group 3 category - “not classifiable as to their
carcinogenicity to humans.

NICKEL: IARC lists metallic nickel under its Group 2B category - “possibly carcinogenic to humans.”

COBALT: IARC lists metallic cobalt under its Group 2B category - “possibly carcinogenic to humans.”

LEAD: IARC lists lead and its inorganic compounds under its Group 2B category - “possibly carcinogenic to humans.”

SYNERGISTIC MATERIALS: N/A

ASPIRATION HAZARD: No data.

SENSITIZATION OF MATERIAL: N/A

LD50 (of Material): Not established

LC50 (of Material): Not established

NOTES:
- STOT – Specific Target Organ Toxicity
- International Agency for Research on Cancer (IARC) - Summaries & Evaluations (2008).
- 3rd Annual Report on Carcinogens as prepared by the National Toxicology Program (NTP).
- Iron containing welding fume has an exposure limit of 5 mg/m³ (ACGIH – TLV’s 2011). Welding fume may also contain contaminants from fluxes or welding consumables. Prolonged skin contact may cause reddening and drying of skin or dermatitis in sensitive individuals due to nickel and/or chromium content in steel.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available for the stainless steel in its natural solid state. However, individual components of the material have been found to be toxic to the environment.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>TOXICITY TO FISH</th>
<th>TOXICITY TO ALGAE</th>
<th>TOXICITY TO MICROORGANISMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>LC50 Common Carp 96 hr. 0.56 mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chromium</td>
<td>LC50 Fathead minnow 96 hr. 10-100 mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel</td>
<td>LC50 Common Carp 96 hr. 1.3 mg/l</td>
<td>EC50 Freshwater Algae 72 hr. 0.18 mg/l</td>
<td>EC50 Water Flea 48 hr. 1.0 mg/l</td>
</tr>
<tr>
<td>Lead</td>
<td>LC50 Common Carp 96 hr. 0.44 mg/l</td>
<td>-</td>
<td>EC50 Water Flea 48 hr. 0.0006 mg/l</td>
</tr>
</tbody>
</table>

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available for steel in its natural solid state. Individual metal dusts may migrate into soil and groundwater and be absorbed by plants.

OTHER ADVERSE EFFECTS: None known.

13. DISPOSAL INFORMATION

WASTE DISPOSAL METHODS: Steel scrap should be recycled whenever possible.

CONTAINER CLEANING & DISPOSAL: Dispose of in accordance with applicable federal, provincial/state or local regulations.

14. TRANSPORTATION INFORMATION

GENERAL SHIPPING INFORMATION: Steel not regulated for shipping.

SHIPPING NAME AND DESCRIPTION: N/A

UN NUMBER: N/A

HAZARD CLASS: N/A

PACKING GROUP/RISK GROUP: N/A

TRANSPORT REGULATIONS:

15. REGULATORY INFORMATION

REGULATORY INFORMATION: The following listing of regulations relating to a Russel Metals Inc. product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.

ADDITIONAL CANADIAN REGULATIONS: WHMIS CLASSIFICATION: Class D2A/D2B: Materials Causing Other Toxic Effects.

DOMESTIC SUBSTANCES LIST: The components of this material are on the federal DSL Inventory.

OTHER CANADIAN REGULATIONS: N/A

ADDITIONAL U.S. REGULATIONS:

SARA:
The components of this material are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA – Oct. 2006), as follows:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>SARA 302 (40 CFR 355, Appendix A)</th>
<th>SARA 304 (40 CFR Table 302.4)</th>
<th>SARA 313 (40 CFR 372.65)</th>
<th>CERCLA Reportable Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>5,000 lb.</td>
</tr>
<tr>
<td>Copper</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>5,000 lb.</td>
</tr>
<tr>
<td>Lead</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>10 lb.</td>
</tr>
<tr>
<td>Manganese</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>None listed</td>
</tr>
<tr>
<td>Element</td>
<td>Threshold Planning Quantity</td>
<td>SARA Threshold Planning Quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------</td>
<td>----------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphorus</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanadium</td>
<td>No</td>
<td>None listed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SARA Threshold Planning Quantity:**
There are no specific Threshold Planning Quantities for the components of this material. Threshold Planning Quantities for Phosphorous is 100 lb. (45.4 kg), per 40 CFR 370.20.

**TSCA INVENTORY STATUS:**
The components of this material are listed on the Toxic Substances Control Act Inventory.

**CERCLA REPORTABLE QUANTITY (RQ):**
RQ's for Hazardous Substances in the Comprehensive Environmental Response, Compensation, and Liability Act are: Chromium = 5000 lb. (2270 kg); Copper = 5000 lb. (2270 kg); Nickel = 100 lb. (45 kg); Phosphorous 1 lb. (0.454 kg).

**CALIFORNIA (PROPOSITION 65):**
The Chromium (VI) component of this material is known in the State of California to cause cancer.
The Nickel component of this material is known in the State of California to cause cancer.
The Cobalt component of this material is known in the State of California to cause cancer.
The Lead component of this material is known in the State of California to cause cancer, and/or birth defects (or other reproductive harm).

**OTHER U.S. FEDERAL REGULATIONS:**
Lead is regulated under 29 CFR 1910.1025.

**ADDITIONAL EUROPEAN UNION REGULATIONS:**
RoHS & WEEE:

Lead (Pb):
The leaded low alloy steel has a lead content of <0.35%, which is above the EU Directive limit of 0.1%.
Lead is not intentionally added to other steel alloys however, it may exist in trace levels.
Note, the EU Directive has a lead exemption limit of up to 0.35% as an alloying element in steel.

Chromium VI (Cr +6):
The hexavalent oxidation state of chromium does not normally exist as part of a metal or alloy.

**T5. OTHER INFORMATION**

**STEEL**

**HAZARD LABEL RATING SYSTEMS:**

**NATIONAL FIRE PROTECTION CODE:**
NFPA CODE: H=0 F=0 R=0

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:**

**WHMIS CODE:**
H=1* F=0 R=0 PPE: See Section 8

* Denotes possible chronic hazard if airborne dusts or fumes are generated.

**PREPARED BY:**
RUSSEL METALS INC. AND ENVIROTEST INC.

**DATE:**
AUGUST 2014

**TELEPHONE:**
905-819-7295

**NOTE:**
CONTACT SUPPLIER FOR ADDITIONAL PRODUCT INFORMATION

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