SAFETY DATA SHEET

This Safety Data Sheet (SDS) is for welding consumables and related products and may be used to comply with OSHA's Hazard Communication standard, 29 CFR 1910.1200, and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499 and Canadian Workplace Hazardous Materials Information System (WHMIS) per Health Canada administrative policy. The OSHA standard must be consulted for specific requirements. This Safety Data Sheet complies with ISO 11014-1 and ANSI Z400.1. This document is translated in several languages and is available on our website at www.hobartbrothers.com, from your sales representative or by calling customer service at 1 (937) 332-4000.

SECTION 1 – IDENTIFICATION

Manufacturer/Supplier
Name: HOBART BROTHERS LLC
Address: 101 TRADE SQUARE EAST, TROY, OH 45373
Canadian Address: 2570 NORTH TALBOT ROAD, OLDCASTLE, ONTARIO, CANADA N0R1LO
Website: www.hobartbrothers.com

Products Type: TUBULAR ARC WELDING ELECTRODES FOR METAL CORED AND COMPOSITE SUBMERGED ARC WELDING

GROUP A: Product For: Carbon and Low Alloy Steel
Trade Name: Metalloy EM-12K-S, EM13K-S, EM13K-S MOD
SubCOR EM12K-S, EM13K-S, EM13K-S MOD

AWS Specification: None

GROUP C: Product For: Carbon and Low Alloy Steel
Trade Name: Metalloy 92-S, F2-S, 100F3-S, 120-S, N1-S, N2-S, W-S
SubCOR 92-S, F2-S, 100F3-S, 120-S, N1-S, W-S, B2-S, B3-S, 4130 SR
SubCOR SL P1, SL P1 MOD, SL P11, SL P12 MOD, SL P36, SL P22, SL P24

AWS Specification: None

GROUP D: Product For: Creep Resisting Steel
Trade Name: SubCOR SL P5, SL P9, SL P91, SL P92

AWS Specification: None

Recommended Use: TUBULAR ARC WELDING ELECTRODES FOR METAL CORED AND COMPOSITE SUBMERGED ARC WELDING

Restrictions on Use: Use only as indicated for welding operations

SECTION 2 – IDENTIFICATION OF HAZARDS

HAZARD CLASSIFICATION – The products described in Section 1 are not classified as hazardous according to applicable GHS hazard classification criteria as required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200).

LABEL ELEMENTS: Hazard Symbol – No symbol required
Hazard Statement – Not applicable
Signal Word – No signal word required
Precautionary Statement – Not Applicable

HAZARDS NOT OTHERWISE CLASSIFIED

WARNING! - Avoid breathing welding fumes and gases, they may be dangerous to your health. Always use adequate ventilation. Always use appropriate personal protective equipment.

PRIMARY ROUTES OF ENTRY: Respiratory System, Eyes and/or Skin.

ELECTRIC SHOCK: Arc welding and associated processes can kill. See Section 8.

FUMES AND GASES: Can be dangerous to your health.

Fumes from the use of this product may contain complex oxides or compounds of the following elements and molecules: amorphous silica fume, calcium oxide, chromium, copper, fluorospar or fluorides, lithium, manganese, nickel and silica. Other reasonably expected constituents of the fume would also include complex oxides of iron, titanium, silicon and molybdenum. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating or galvanizing), the number of welders and the volume of the work area, the quality and amount of ventilation, the position of the welder’s head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample inside the welder’s helmet if worn or in the worker’s breathing zone. See ANSI/AWS F1.1 and F1.3, available from the “American Welding Society”, 8669 NW 36 Street, # 130, Miami, Florida 33166-6672, Phone: 800-443-9353 or 305-443-9353. Also, from AWS is F1.3 “Evaluating Contaminants in the Welding Environment - A Sampling Strategy Guide”, which gives additional advice on sampling.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

IMPORTANT - This section covers the hazardous materials from which this product is manufactured. This data has been classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) as required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200). The fumes and gases produced during welding with normal use of this product are addressed in Section 8.
### SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>EINECS</th>
<th>GROUP AND %WEIGHT</th>
<th>GHS Classification(s)</th>
<th>GHS HAZARD STATEMENTS (See Section 16 for Complete Phrases)</th>
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<tbody>
<tr>
<td>CA</td>
<td>1317-65-3</td>
<td>215-279-6</td>
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<td>CHROMIUM (metal)</td>
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<td>&lt;2</td>
<td>&lt;2</td>
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<tr>
<td>(Amorphous Silica Fume)</td>
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<td>273-761-1</td>
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<td>---</td>
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<td>&lt;1</td>
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<td>HEXAVALENT CHROMIUM [CHROMIUM (VI) TRIOXIDE] (Fume constituent)</td>
<td>1333-82-0</td>
<td>215-607-8</td>
<td>Varies</td>
<td>Varies</td>
<td>Varies</td>
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</tbody>
</table>

**SECTION 4 – FIRST AID MEASURES**

**INGESTION**: Not an expected route of exposure. Do not eat, drink, or smoke while welding; wash hands thoroughly before performing these activities. If symptoms develop, seek medical attention at once.

**INHALATION during welding**: If breathing is difficult, provide fresh air and contact physician. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

**SKIN CONTACT during welding**: Remove contaminated clothing and wash the skin thoroughly with soap and water. If symptoms develop, seek medical attention at once.

**EYE CONTACT during welding**: Dust or fume from this product should be flushed from the eyes with copious amounts of clean, tepid water until victim is transported to an emergency medical facility. Do not allow victim to rub or keep eyes tightly closed. Obtain medical assistance at once. Arc rays can injure eyes. If exposed to arc rays, move victim to dark room, remove contact lenses as necessary for treatment, cover eyes with a padded dressing and rest. Obtain medical assistance if symptoms persist.

Section 11 of this SDS covers the acute effects of overexposure to the various ingredients within the welding consumable. Section 8 of this SDS lists the exposure limits and covers methods for protecting yourself and your co-workers.
**SAFETY DATA SHEET**

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Fire Hazards:** Welding consumables applicable to this sheet as shipped are nonreactive, nonflammable, non-explosive and essentially nonhazardous until welded.

Welding arcs and sparks can ignite combustibles and flammable products. If there are flammable materials, including fuel or hydraulic lines, in the work area and the worker cannot move the work or the fireable material, a fire-resistant shield such as a piece of sheet metal or fire resistant blanket should be placed over the flammable material. If welding work is conducted within 35 feet or so of flammable materials, station a responsible person in the work zone to act as fire watcher to observe where sparks are flying and to grab an extinguisher or sound the alarm if needed.

Unused welding consumables may remain hot for a period of time after completion of a welding process. See American National Standard Institute (ANSI) Z49.1 for further general safety information on the use and handling of welding consumables and associated procedures.

**Suitable Extinguishing Media:** This product, as shipped, is essentially nonhazardous until welded; therefore, use a suitable extinguishing agent for a surrounding fire.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

In the case of a release of solid welding consumable products, solid objects can be picked up and placed into a disposal container. If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8. Wear personal protective equipment while handling. Do not discard as general trash.

**SECTION 7 – HANDLING AND STORAGE**

**HANDLING:** No specific requirements in the form supplied. Handle with care to avoid cuts. Wear gloves when handling welding consumable materials. Some individuals can develop an allergic reaction to certain materials. Retain all warning and product labels.

**STORAGE:** Keep separate from acids and strong bases to prevent possible chemical reactions.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Read and understand the instructions and the labels on the packaging. Welding fumes do not have a specific OSHA PEL or ACGIH TLV. The OSHA PEL for Particulate – Not Otherwise Classified (PNCOC) is 5 mg/m³ – Respirable Fraction, 15 mg/m³ – Total Dust. The ACGIH TLV for Particles – Not Otherwise Specified (PNSO) is 3 mg/m³ – Respirable Particles, 10 mg/m³ – Inhalable Particles. The individual complex compounds within the fume may have a lower OSHA PEL or ACGIH TLV than the OSHA Particulate – Not Otherwise Classified (PNCOC) and ACGIH Particles – Not Otherwise Specified (PNSO). An Industrial Hygienist, the OSHA Permissible Exposure Limits for Air Contaminants (29 CFR 1910.1000), and the ACGIH Threshold Limit Values should be consulted to determine the specific fume constituents present and their respective exposure limits. All exposure limits are in milligrams per cubic meter (mg/m³).

**INGREDIENT**

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
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<td>COPPER</td>
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<td>(Amorphous Silica Fume)</td>
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<tr>
<td>SILICON+</td>
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<td>231-130-8</td>
<td>5 R*</td>
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<td>TITANIUM+</td>
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<td>231-176-9</td>
<td>5 (Zr Cpdns)</td>
</tr>
</tbody>
</table>

**R** - Respirable Fraction  **I** - Inhalable Fraction  **- Ceiling Limit  **- Short Term Exposure Limit  **+ - As a nuisance particulate covered under "Particulates Not Otherwise Regulated" by OSHA or "Particulates Not Otherwise Classified" by ACGIH. **++ - Crystalline silica is bound within the product as it exists in the package. However, research indicates silica is present in the amorphous (noncrystalline) form. Reportable material under Section 313 of SARA. **- NIOSH REL TWA and STEL ** - AHA - AIHA Ceiling Limit of 1 mg/m³ ** - Limit of 0.1 mg/m³ is for Inhalable Mn in 2013 by ACGIH ** - Limit of 0.02 mg/m³ is for Respirable Mn in 2013 by ACGIH. ** - Element ** - Soluble Insol ** - Insoluble Inorg ** - Inorganic Cpdns ** - Compounds NOS ** - Not Otherwise Specified (A1) - Confirmed Human Carcinogen per ACGIH (A2) - Suspected Human Carcinogen per ACGIH (A3) - Confirmed Animal Carcinogen with Unknown Relevance to Humans per ACGIH (A4) - Not Classifiable as a Human Carcinogen per ACGIH (A5) - Not Suspected as a Human Carcinogen per ACGIH (noncrystalline form) - DSEN - Dental Sensitization - RESN - Respiratory Sensitization - EINECS - European Inventory of Existing Commercial Chemical Substances - OSHA - U.S. Occupational Safety and Health Administration - ACGIH - American Conference of Governmental Industrial Hygienists

**VENTILATION:** Use enough ventilation or local exhaust at the arc or both to keep the fumes and gases below the PEL/TLV in the worker’s breathing zone and the general area. Train the welder to keep his head out of the fumes.

**RESPIRATORY PROTECTION:** Use NIOSH approved or equivalent fume respirator or air supplied respirator when welding in confined space or where local exhaust or ventilation does not keep exposure below the regulatory limits.

**EYE PROTECTION:** Wear helmet or use face shield with filter lens for open arc processes. As a rule of thumb begin with Shade Number 14. Adjust if needed by selecting the next lighter and/or darker shade number. Provide protective screens and flash goggle, if necessary, to shield others from the weld arc flash.

**PROTECTIVE CLOTHING:** Wear head, hand and body protection which help to prevent injury from radiation, sparks and electrical shock. See ANSI Z49.1. At a minimum this includes welder’s gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection as well as dark non-synthetic clothing. Train the welder not to touch live electrical parts and to insulate himself from work and ground.

**PROCEDURE FOR CLEANUP OF SPILLS OR LEAKS:** Not applicable.

**SPECIAL PRECAUTIONS:** When welding with electrodes that require special ventilation (such as stainless or hardfacing, or other products which require special ventilation, or on lead- or cadmium-plated steel and other metals or coatings like galvanized steel, which produce hazardous fumes) maintain exposure below the PEL/TLV. Use industrial hygiene monitoring to ensure that your use of this material does not create exposures which exceed PEL/TLV. Always use exhaust ventilation. Refer to the following sources for important additional information: American National Standard Institute (ANSI) Z49.1; Safety in Welding and Cutting published by the American Welding Society, 8669 NW 36 Street, Suite 130, Doral, FL 33166-6672, Phone: 800-443-9533 or 305-443-9535, and OSHA Publication 2206 (29 CFR 1910). U.S. Government Printing Office, Washington, DC 20402.
SAFETY DATA SHEET

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Welding consumables applicable to this sheet as shipped are nonreactive, nonflammable, non-explosive and essentially nonhazardous until welded.

PHYSICAL STATE: Solid

APPEARANCE: Round, Cored Wire

COLOR: Gray

ODOR: Not Applicable

ODOR THRESHOLD: Not Applicable

pH: Not Applicable

MELTING POINT/FREEZING POINT: Not Available

INITIAL BOILING POINT AND BOILING RANGE: Not Available

FLASH POINT: Not Available

EVAPORATION RATE: Not Applicable

FLAMMABILITY (SOLID, GAS): Not Available

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Applicable

RELATIVE DENSITY: Not Available

SOLUBILITY(IES): Not Available

PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Applicable

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Applicable

SECTION 10 – STABILITY AND ACTIVITY

GENERAL: Welding consumables applicable to this sheet are solid and nonvolatile as shipped. This product is only intended for use per the welding parameters it was designed for. When this product is used for welding, hazardous fumes may be created. Other factors to consider include the base metal, base metal preparation and base metal coatings. All of these factors can contribute to the fume and gases generated during welding. The amount of fume varies with the welding parameters.

STABILITY: This product is stable under normal conditions.

REACTIVITY: Contact with acids or strong bases may cause generation of gas.

SECTION 11 – TOXICological INFORMATION

SHORT-TERM (ACUTE) OVEREXPOSURE EFFECTS: Welding Fumes - May result in discomfort such as dizziness, nausea or dryness or irritation of nose, throat or eyes. Calcium Oxide - Dust or fumes may cause irritation of the respiratory system, skin and eyes. Chromium - Inhalation of fume with chromium (VI) compounds can cause irritation of the respiratory tract, lung damage and asthma-like symptoms. Swallowing chromium (VI) salts can cause severe injury or death. Dust on skin can form ulcers. Eyes may be burned by chromium (VI) compounds. Allergic reactions may occur in some people. Copper - Metal fume fever characterized by metallic taste, tightness of chest and fever. Symptoms may last 24 to 48 hours following overexposure. Fluorides - Fluoride compounds evolved may cause skin and eye burns, pulmonary edema and bronchitis. Iron, Iron Oxide - None are known. Treat as nuisance dust or fume. Lithium Compounds - Overexposure may cause tremor and nausea. Manganese, Manganese Oxide - Metal fume fever characterized by chills, fever, upset stomach, vomiting, irritation of the throat and aching of body. Recovery is generally complete within 48 hours of the overexposure. Molybdenum - Irritation of the eyes, nose and throat. Nickel, Nickel Compounds - Metallic taste, nausea, tightness in chest, metal fume fever, allergic reaction. Silica (Amorphous) - Dust and fumes may cause irritation of the respiratory system, skin and eyes. Titanium Dioxide - Irritation of respiratory system. Zirconium - May cause irritation of the eyes, nose and throat due to mechanical effects.

LONG-TERM (CHRONIC) OVEREXPOSURE EFFECTS: Welding Fumes - Excess levels may cause bronchial asthma, lung fibrosis, pneumoconiosis or “siderosis.” Studies have concluded that there is sufficient evidence for ocular melanoma in welders. Calcium Oxide - Prolonged overexposure may cause ulceration of the skin and perforation of the nasal septum, dermatitis and pneumonia. Chromium - Ulceration and perforation of nasal septum. Respiratory irritation may occur with symptoms resembling asthma. Studies have shown that chromate production workers exposed to hexavalent chromium compounds have an excess of lung cancers. Chromium (VI) compounds are more readily absorbed through the skin than chromium (III) compounds. Good practice requires the reduction of employee exposure to chromium (III) and (VI) compounds. Copper - Copper poisoning has been reported in the literature from exposure to high levels of copper. Liver damage can occur due to copper accumulating in the liver characterized by cell destruction and cirrhosis. High levels of copper may cause nausea and jaundice. High levels of copper may cause central nervous system damage characterized by nerve fiber separation and cerebral degeneration. Fluorides - Serious bone erosion (Osteoporosis) and mottling of teeth. Iron, Iron Oxide Fumes - Can cause siderosis (deposits of iron in lungs) which some researchers believe may affect pulmonary function. Lungs will clear in time when exposure to iron and its compounds ceases. Iron and magnesium (Fe:Mg) are not regarded as fibrogenic materials. Lithium Compounds - May be considered as potentially teratogenic. Manganese, Manganese Oxide - Long-term overexposure to manganese compounds may affect the central nervous system. Symptoms may be similar to Parkinson's disease and can include slowness, changes in handwriting, gait impairment, muscle spasms and cramps and less commonly, tremor and behavioral changes. Employees who are overexposed to manganese compounds should be seen by a designated physician. Nickel, Nickel Compounds - Lung fibrosis or pneumoconiosis. Studies of nickel refinery workers indicated a higher incidence of lung and nasal cancers. Silica (Amorphous) - Research indicates that silica is present in welding fume in the amorphous form. Long term overexposure may cause pneumoconiosis. Non-crystalline forms of silica (amorphous silica) are considered to have little fibrotic potential. Titanium Dioxide - Pulmonary irritation and slight fibrosis. Zirconium - May cause pulmonary fibrosis and pneumoconiosis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing impaired lung functions (asthma-like conditions). Persons with a pacemaker should not go near welding and cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device. Respirators are to be worn only after being medically cleared by your company-designated physician.

EMERGENCY AND FIRST AID PROCEDURES: Call for medical aid. Employ first aid techniques recommended by the American Red Cross. If irritation or flash burns develop after exposure, consult a physician.

CARCINOGENICITY: Chromium VI compounds, nickel compounds and silica (crystalline quartz) are classified as IARC Group 1 and NTP Group K carcinogens. Titanium dioxide, nickel metal/ alloys and welding fumes are classified as IARC Group 2B carcinogens.

CALIFORNIA PROPOSITION 65: ▶️ WARNING: These products can expose you to chemicals, including titanium dioxide and/or chromium and/or nickel, which are known to the State of California to cause cancer, and to carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to: www.P65Warnings.ca.gov.
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**INGREDIENT** | **CAS** | **IARC*** | **NTP** | **OSHA** | **65***
--- | --- | --- | --- | --- | ---
CALCIUM CARBONATE | 1317-85-3 | --- | --- | --- | ---
CHROMIUM | 7440-47-3 | 3*, 1* | K* | X* | ---
COPPER | 7440-50-8 | --- | --- | --- | ---
FLUORSPAR | 7789-75-5 | --- | --- | --- | ---
IRON | 7439-89-6 | --- | --- | --- | ---
IRON OXIDE | 1309-37-1 | 3 | --- | --- | ---
LITHIUM OXIDE | 12057-24-8 | --- | --- | --- | ---
MANGANESE | 7439-96-5 | --- | --- | --- | ---
MANGANESE OXIDE | 1344-43-0 | --- | --- | --- | ---
MOLYBDENUM | 7439-98-7 | --- | --- | --- | ---
NICKEL | 7440-02-0 | 2B*, 1* | S*, K* | --- | X*, X**
SILICA | 14808-60-7 | 1* | K | --- | X
SILICON | 7440-21-3 | --- | --- | --- | ---
TITANIUM | 7440-32-6 | --- | --- | --- | ---
TITANIUM DIOXIDE | 13463-67-7 | 2B | --- | --- | X
ULTRAVIOLET RADIATION | --- | 1 | --- | --- | ---
WELDING FLAME | --- | 1 | --- | --- | ---
ZIRCONIUM | 7440-67-7 | --- | --- | --- | ---

E – International Agency for Research on Cancer (1 – Carcinogenic to Humans, 2A – Possibly Carcinogenic to Humans, 2B – Possibly Carcinogenic to Humans, 3 – Not Classifiable as to its Carcinogenicity to Humans, 4 — Probably Not Carcinogenic to Humans)  2 – US National Toxicology Program (K – Known Carcinogen, S – Suspected Carcinogen)  H – OSHA Designated Carcinogen List  1 – California Proposition 65 (X – On Proposition 65 list)  1 – Chromium Metal and Chromium III Compounds  Σ – Chromium VI  β – Nickel metal and alloys  ββ – Nickel compounds  Ψ – Silica Crystalline α-Quartz  --- Dashes indicate the ingredient is not listed with the IARC, NTP, OSHA or Proposition 65

**SECTION 12 – ECOLOGICAL INFORMATION**

Welding processes can release fumes directly to the environment. Welding wire can degrade if left outside and unprotected. Residues from welding consumables and processes could degrade and accumulate in the soil and groundwater.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

Use recycling procedures if available. Discard any product, residue, packaging, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

**SECTION 14 – TRANSPORT INFORMATION**

No international regulations or restrictions are applicable. No special precautions are necessary.

**SECTION 15 – REGULATORY INFORMATION**

Read and understand the manufacturer’s instructions, your employer’s safety practices and the health and safety instructions on the label and the safety data sheet. Observe all local and federal rules and regulations. Take all necessary precautions to protect yourself and others. United States EPA Toxic Substances Control Act: All constituents of these products are on the TSCA inventory list or are excluded from listing.

**CERCLA/SARA TITLE III: Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs):**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>RQ (lb)</th>
<th>TPQ (lb)</th>
</tr>
</thead>
</table>

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

**Section 311 Hazard Class**

As shipped: Immediate  In use: Immediate delayed

**EPCRA/SARA TITLE 313 TOXIC CHEMICALS:** The following metallic components are listed as SARA 313 “Toxic Chemicals” and potentially subject to annual SARA 312 reporting: Chromium, Copper, Manganese, and Nickel. See Section 3 for weight percentage.

**CANADIAN WHMIS CLASSIFICATION:** Class D; Division 2, Subdivision A

**CANADIAN CONTROLLED PRODUCTS REGULATION:** This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):** All constituents of these products are on the Domestic Substance List (DSL).

**SECTION 16 – OTHER INFORMATION**

The following Hazard Statements, provided in the OSHA Hazard Communication Standard (29 CFR Part 1910.1200) correspond to the columns labeled ‘GHS Hazard Statements’ within Section 3 of this safety data sheet. Take appropriate precautions and protective measures to eliminate or limit the associated hazard.

- **H250:** Catches fire spontaneously if exposed to air
- **H260:** In contact with water releases flammable gases which may ignite spontaneously
- **H271:** May cause fire or explosion; strong oxidizer
- **H301:** Toxic if swallowed
- **H311:** Toxic in contact with skin
- **H314:** Causes severe skin burns and eye damage
- **H317:** May cause an allergic skin reaction
- **H319:** Causes serious eye irritation
- **H320:** Harmful if swallowed
- **H330:** Fatal if inhaled
- **H332:** Harmful if inhaled
- **H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled
- **H335:** May cause respiratory irritation
- **H340:** May cause genetic defects
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H350: May cause cancer
H351: Suspected of causing cancer
H361f: Suspected of damaging fertility or the unborn child
H372: Causes damage to organs through prolonged or repeated exposure
H373: May cause damage to organs through prolonged or repeated exposure
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects

The following Supplemental Hazard Information (EUH-Statement) pertaining to Section 3 is also taken from the OSHA Hazard Communication Standard (29 CFR Part 1910.1200):
EUH014 - Reacts violently with water

For additional information please refer to the following sources:

USA:
Threshold Limit Values and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists (ACGIH), 6500 Glenway Ave., Cincinnati, Ohio, 45211, USA.
NFPA 51B “Standard for Fire Prevention During Welding, Cutting and Other Hot Work” published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169.

Canada: CSA Standard CAN/CSA-W117.2-01 “Safety in Welding, Cutting and Allied Processes”.

Hobart Brothers LLC strongly recommends the users of this product study this SDS, the product label information and become aware of all hazards associated with welding. Hobart Brothers LLC believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Hobart Brothers LLC cannot make any expressed or implied warranty as to this information.