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

Product Type: GAS METAL ARC WELDING (GMAW) SOLID WIRE; SUBMERGED ARC WELDING (SAW) SOLID WIRE

AWS Specification: ER70S-2, ER70S-3, ER70S-6, AND ER80S-D2; EM-12, EM-12K, EM-13K, EH-12K AND EA-2

Recommended Use: GAS METAL ARC WELDING (GMAW) SOLID WIRE; SUBMERGED ARC WELDING (SAW) SOLID WIRE

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
Signal Word – No signal word required
Hazard Statement – Not applicable
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.

ARC RAYS: The welding arc can injure eyes and burn skin.

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

FUMES AND GASES: Can be dangerous to your health.

Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedures and electrodes used. Most fume ingredients are present as complex oxides and compounds and not as pure metals. When the electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation, plus those from the base metal and coating, etc., of the materials shown in Section 3 of this Safety Data Sheet. Monitor for the component materials identified in the list in Section 3.

Fumes from the use of this product may contain complex oxides or compounds of the following elements and molecules: amorphous silica fume, copper, manganese and zirconium. 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.

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>EINECS</th>
<th>% WEIGHT</th>
<th>GHS Classification(s)</th>
<th>GHS HAZARD STATEMENTS (See Section 16 for Complete Phrases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM(1)</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>0.1</td>
<td>Powder (pyrophoric): - Pyr. Sol. 1(2) - Water-react. 2(3) Powder (Stabilized): - Flam. Sol. 4(1) - Water-react. 2(3)</td>
<td>H250 H261 H228 H261</td>
</tr>
<tr>
<td>COPPER(3)</td>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>0.5</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>IRON</td>
<td>7439-89-6</td>
<td>231-096-4</td>
<td>90-99</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>MANGANESE</td>
<td>7439-96-5</td>
<td>231-105-1</td>
<td>0.1-10</td>
<td>- Acute Tox. 4 (Inhalation) 96 - Acute Tox 4 (Oral) 96 - STOT RE 1(3)</td>
<td>H332 H302 H372</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>EINECS¹</th>
<th>% WEIGHT</th>
<th>GHS Classification(s)</th>
<th>GHS HAZARD STATEMENTS (See Section 16 for Complete Phrases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOLYBDENUM</td>
<td>7439-98-7</td>
<td>231-107-2</td>
<td>0.1-1.9</td>
<td>- STOT RE 2(8)</td>
<td>H373 H319 H335</td>
</tr>
<tr>
<td>(Amorphous Silica Fume)</td>
<td>69012-64-2</td>
<td>273-761-1</td>
<td>---</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>SILICON</td>
<td>7440-21-3</td>
<td>231-130-8</td>
<td>0.1-5</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>TITANIUM</td>
<td>7440-32-6</td>
<td>231-142-3</td>
<td>0-0.2</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE [Fume constituent]</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>Varies</td>
<td>- Carc. 2(31)</td>
<td>H351</td>
</tr>
<tr>
<td>ZIRCONIUM</td>
<td>7440-67-7</td>
<td>231-176-9</td>
<td>0-0.1</td>
<td>- Pyr. Sol. 1(2)</td>
<td>H250 H260</td>
</tr>
</tbody>
</table>

--- Dashes indicate the ingredient is not present within the group of chemicals.

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.

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

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

Suitable Extinguishing Media: None known.

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 proper 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 consumables. Avoid exposure to dust. Do not ingest. 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 (Permissible Exposure Limit) or ACGIH TLV (Threshold Limit Value). The OSHA PEL for Particulates – Not Otherwise Regulated (PNOR) is 5 mg/m³ – Respirable Fraction, 15 mg/m³ – Total Dust. The ACGIH TLV for Particles – Not Otherwise Specified (PNOS) 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 PNOR and ACGIH PNOS. An Industrial Hygienist, the OSHA PELs or Air Contaminants (29 CFR 1910.1000), and the ACGIH TLVs 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).

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>EINECS¹</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM###</td>
<td>7429-90-5</td>
<td>231-073-2</td>
<td>5 R*, 15 (Dust)</td>
<td>1 R* (A4)</td>
</tr>
<tr>
<td>COPPER</td>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>0.1 (Fume), 1 (Dust)</td>
<td>0.2 (Fume), 1 (Dust)</td>
</tr>
<tr>
<td>IRON</td>
<td>7439-89-6</td>
<td>231-096-4</td>
<td>5 R*</td>
<td>5 R* (Fe,Fe) (A4)</td>
</tr>
<tr>
<td>IRON OXIDE</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>10 (Oxide Fume)</td>
<td>5 R* (Fe,Fe) (A4)</td>
</tr>
<tr>
<td>MANGANESE#</td>
<td>7439-96-5</td>
<td>231-105-1</td>
<td>5 Cl ** (Fume)</td>
<td>0.11* (A4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1, 3 STEL***</td>
<td>0.02 R*</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

MOLYBDENUM 7439-98-7 231-107-2 5 R*
(Amorphous Silica Fume) 69012-64-2 273-761-1 0.8 3 R*; 10* (Ele and Insol) 0.5 R* (Sol Cpnds) {A3}
SILICON 7440-21-3 231-130-8 5 R* 2 R*
TITANIUM+ 7440-32-6 231-142-3 5 R* 3 R*
TITANIUM DIOXIDE 13463-67-7 236-675-5 15 (Dust) 10 (A4)
ZIRCONIUM 7440-67-7 231-176-9 5 (Zr Cpnds) 5, 10 STEL*** (Zr Cpnds) (A4)

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 welding fume in the amorphous (noncrystalline) form  - - Reportable material under Section 313 of SARA  *** - Reportable material under Section 313 of SARA as dust or fume  - - - AIHA Ceiling Limit of 1 mg/m3  - - Limit of 0.1 mg/m3 is for Inhalable Mn in 2015 by ACGIH  - - - Limit of 0.02 mg/m3 is for Respirable Mn in 2015 by ACGIH  Ele - Element Sol - Soluble Insol - Insoluble Inorg - Inorganic Cpnds - Compounds NOS - Not Otherwise Specified

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 welding 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 goggles, if necessary, to shield others from the weld arc flash.

PROTECTIVE CLOTHING: Wear, head 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 goggles and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection as well as dark non-reflective 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.

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: Solid, round wire
COLOR: Gray or Copper (shiny metallic)
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 Applicable
VAPOR DENSITY: Not Applicable
RELATIVE DENSITY: Not Available
SOLUBILITY(IES): Not Available
PARTITION COEFFICIENT: N-OCTANOL/WATER: Not Applicable
AUTO-IGNITION TEMPERATURE: Not Available
DECOMPOSITION TEMPERATURE: Not Available
VISCOSITY: Not Applicable
EXPLOSIVE PROPERTIES: Not Available
OXIDIZING PROPERTIES: Not Available

SECTION 10 - STABILITY AND REACTIVITY

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. Aluminum/Aluminum Oxide - Irritation of the respiratory system. Copper - Metal fume fever characterized by metallic taste, tightness of chest and fever. Symptoms may last 24 to 48 hours following overexposure. Iron, Iron Oxide - None are known. Treat as nuisance dust or fume. Manganese - 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. Zirconium - Irritation of the eyes, nose and throat. Silica (Amorphous) - Dust and fumes can 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. Aluminum/Aluminum Oxide - Pulmonary fibrosis and emphysema. 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 central nervous system damage characterized by nerve fiber separation and cerebral degeneration. 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 magnetite (Fe3O4) are not regarded as fibrogenic materials. Manganese - 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 physician for early intervention.

OSHA - U.S. Occupational Safety and Health Administration ACGIH – American Conference of Governmental Industrial Hygienists
SAFETY DATA SHEET

detection of neurologic problems. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular weakness, psychological disturbances and spastic gait. Molybdenum - Prolonged overexposure may result in loss of appetite, weight loss, loss of muscle coordination, difficulty in breathing and anemia. 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: Titanium dioxide and welding fumes are classified as IARC Group 2B carcinogens.

CALIFORNIA PROPOSITION 65:
WARNING: These products can expose you to chemicals, including 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.

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>65x</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM</td>
<td>7429-90-5</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>COPPER</td>
<td>7440-50-8</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>IRON</td>
<td>7439-89-6</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>IRON OXIDE</td>
<td>1309-37-1</td>
<td>3</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>MANGANESE</td>
<td>7439-96-5</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>MOLYBDENUM</td>
<td>7439-98-7</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>(Amorphous Silica fume)</td>
<td>69012-64-2</td>
<td>3</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>SILICON</td>
<td>7440-21-3</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>TITANIUM</td>
<td>7440-32-6</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>2B</td>
<td>---</td>
<td>X</td>
<td>---</td>
</tr>
<tr>
<td>Ultraviolet Radiation</td>
<td>---</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Ultraviolet Radiation</td>
<td>---</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Welding Fumes</td>
<td>---</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>ZIRCONIUM</td>
<td>7440-67-7</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

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) Z – US National Toxicology Program (K – Known Carcinogen, S – Suspected Carcinogen) Η – OSHA Designated Carcinogen List Θ – California Proposition 65 (X – On Proposition 65 list) Σ – Chromium Metal and Chromium III Compounds Ψ – Silica Crystaline 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 Substance 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>
| Products on this SDS are a solid solution in the form of a solid article.

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 III 313 TOXIC CHEMICALS: The following metallic components are listed as SARA 313 “Toxic Chemicals” and potentially subject to annual SARA 312 reporting: Copper and Manganese. 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.
H228: Flammable solid
H250: Catches fire spontaneously if exposed to air
H260: In contact with water releases flammable gases which may ignite spontaneously
H261: In contact with water releases flammable gases
H302: Harmful if swallowed
H319: Causes serious eye irritation
H332: Harmful if inhaled
H351: Suspected of causing cancer
H372: Causes damage to organs through prolonged or repeated exposure
H373: May cause damage to organs through prolonged or repeated exposure

For additional information please refer to the following sources:

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.