

SECTION I – IDENTIFICATION du produit et de la société

Fabricant/fournisseur : Welding Material Sales	Utilisation recommandée: Brasage ou soudage au gaz et à l'arc	Restriction d'utilisation : Inconnu	N ° de téléphone: 630-232-6421
Adresse: 3940 Stern Ave St. Charles IL 60174			Numéro d'urgence : 800-424-9300
Nom commercial :		Spécification	E-mail: sales@weldingmaterialsales.com
ECu, ECuMnNiAl, ECuSn-C, ECuNi, ECuAl-A2, ERCu, ERCuSi-A, ERCuSn-A, ERCuAl-A1, ERCuAl-A2, , RBCuZn-A, RBCuZn-B, RBCuZn-C, RBCuZn-D, BCUP2, BCUP3, BCUP5		AWS A5.6 AWS A5.7 AWS A5.8	

SECTION II – COMPOSITION / INFORMATIONS SUR LES INGRÉDIENTS

Classification des dangers SGH : Non classé/Éléments d'étiquetage - Symbole de danger et mot d'avertissement = Aucun symbole ou mot d'avertissement

Mention de danger et conseil de prudence = Non applicable

Autres dangers qui n'entraînent pas la classification et l'aperçu du SGH : Un choc électrique peut tuer. Portez une protection approuvée pour la tête, les mains et le corps, qui aide à prévenir les blessures causées par les radiations, les étincelles et les chocs électriques. L'arc de soudage et les étincelles peuvent enflammer des combustibles ou des matériaux inflammables. Voir ANSI Z-49.1. Cela comprendrait le port de gants de soudeur et d'un écran facial protecteur et pourrait inclure des protège-bras, un tablier, des chapeaux, une protection des épaules, ainsi que des vêtements sombres et substantiels. Les soudeurs doivent être formés pour ne pas permettre aux pièces sous tension électrique de contracter la peau ou de mouiller les vêtements et les gants. Les soudeurs doivent s'isoler du travail et du sol. Les rayons d'arc peuvent blesser les yeux et brûler la peau. Lisez et comprenez les instructions du fabricant et l'étiquette de mise en garde sur ce produit ainsi que les pratiques de sécurité de votre employeur. Voir l'article XIII.

Tels qu'ils sont expédiés, ces fils fourrés sont inodores, ininflammables, non explosifs, non réactifs et non dangereux et peuvent être recouverts de cuivre.

Substance : Les fumées et les gaz de soudage ne peuvent pas être classés simplement. La composition et la quantité de ces fumées et gaz dépendent du métal à souder, des procédures suivies et des électrodes utilisées. Les vapeurs peuvent affecter les yeux, la peau, le système respiratoire ainsi que le pancréas et le foie.

Les travailleurs doivent être conscients que la composition et la quantité de fumées et de gaz auxquels ils peuvent être exposés sont influencées par : les revêtements qui peuvent être présents sur le métal à souder (tels que la peinture, le placage ou la galvanisation), le nombre de soudeurs dans fonctionnement et le volume de la zone de travail, la qualité et la quantité de ventilation, la position de la tête du soudeur par rapport au panache de fumée, ainsi que la présence de contaminants dans l'atmosphère (telles que les vapeurs d'hydrocarbures chlorés provenant de la procédure de nettoyage et de dégraissage). Lorsque la charge est consommée, les fumées et les produits de décomposition des gaz générés sont différents en pourcentage et en forme des ingrédients énumérés dans la section III. La composition de ces fumées et gaz est la matière concernée et non la composition de l'électrode elle-même. Les produits de décomposition comprennent ceux provenant de la volatilisation, de la réaction ou de l'oxydation des ingrédients indiqués à la section III, ainsi que ceux provenant du métal de base, du revêtement et des autres facteurs mentionnés ci-dessus.

Les constituants raisonnablement attendus des fumées de ce produit peuvent inclure : Oxydes complexes ou composés de fer, manganèse, silicium, cuivre, aluminium, titane. (D'autres oxydes complexes peuvent être présents lors de l'utilisation de flux).

Identité chimique	N ° CAS.	EINECS#
Gaz carbonique	124-38-9	204-696-9
Fluorure de calcium	7789-75-5	232-188-7
Monoxyde de carbone	630-8-0	211-128-3
Dioxyde d'azote	10102-44-0	233-272-6
Ozone	10028-15-6	233-069-2
Manganèse (Mn)	7439-96-5	231-105-1
Nickel (Ni)	7440-02-0	231-111-4
Oxyde de chrome	1308-38-9	215-160-9

SECTION III – COMPOSITION / INFORMATIONS SUR LES INGRÉDIENTS

*Le terme "MATIÈRES DANGEREUSES" doit être interprété comme un terme requis et défini dans la NORME DE COMMUNICATION DES DANGERS OSHA 29 CFR 1910.1200, mais l'utilisation de ce terme n'implique pas nécessairement l'existence d'un danger.

Ingrédients d'identité chimique	N ° CAS.	EINECS#	Ingrédients d'identité chimique	N ° CAS.	EINECS#
Fer (Fe) (limites sous forme de fumée d'oxyde)	7439-89-6	231-096-4	Étain (Sn)	7440-31-5	231-141-8
Manganèse (Mn) (limites sous forme de fumée)	7439-96-5	231-105-1	Nickel (Ni)	7440-02-0	231-111-4
Silicium (Si)	7440-21-3	231-130-8	Cuivre (Cu)	7440-50-8	231-159-6
Fumée de zinc (Zn) ⁽¹⁾	7440-66-6	231-175-3	Plomb (Pb)	7439-92-1	231-100-4
Aluminium (Al)	7429-90-5	231-072-3	Phosphore (jaune)	7723-14-0	231-768-7
Titane	7440-32-6	231-142-3			

SECTION V – FIRE-FIGHTING MEASURES

As shipped these are odorless, wires or rods which may have a flux coating that are nonflammable, non-explosive, non-reactive and non-hazardous. Welding arcs and sparks can ignite combustibles or flammable materials. Read and understand the manufacturer's instructions and precautionary label on this product and your employer's safety practices. Read and understand: American National Standard ANSI Z49.1 *Safety in Welding, Cutting and Allied Processes*, published by the AMERICAN WELDING SOCIETY, 550 N.W. LeJeune Road, Miami, Florida 33126; OSHA *Safety and Health Standards* are published by the U.S. Government Printing Office, 732 North Capitol Street NW, Washington, DC 20401. Also National Fire Protection Association NFPA 51B, *Standard for Fire Prevention During Welding, Cutting and other Hot Work*

Suitable (and unsuitable) extinguishing media: As shipped these items will not burn however in the event use media recommended for the burning materials and fire situation and surroundings. No unsuitable media known at this time. **Specific hazards arising from the chemicals:** Welding arcs and sparks can ignite combustibles or flammable materials. **Specific protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and full protective clothing in case of fire or when fumes and vapors are present. Follow general fire-fighting precautions as in the workplace.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures: With airborne dust and fumes be sure to use adequate engineering ventilation controls and personal protection to prevent overexposure limits recommendations found in Section VIII.

Environment precautions: Control work practices to eliminate environmental release. These products are metal cord wire, with no spill or leak hazards as shipped. If product becomes molten dam up with sand type media until it cools back to a solid and reuse/recycle as scrap.

Methods and Materials for containment and cleaning up: Cored wire can be picked up and placed back in/on the original container. Clean up immediately while following all safety guidelines as well as using all personal protection safety listed in section VIII. Avoid generating dust and prevent materials from entering and drains, sewers or water sources. Disposal considerations found in Section XIII.

When fumes and vapors are present. Follow general fire-fighting precautions as in the workplace.

SECTION VII – HANDLING AND STORAGE

Precautions for safe handling: Handle with care wearing gloves and keep formation of airborne dust and fumes to a minimum. If needed use adequate engineering ventilation controls and personal protection to prevent overexposure limits recommendations found in Section VIII. Also read American National Standard ANSI Z49.1 *Safety in Welding, Cutting and Allied Processes*, published by the AMERICAN WELDING SOCIETY, 550 N.W. LeJeune Road, Miami, Florida 33126; OSHA *Safety and Health Standards* are published by the U.S. Government Printing Office, 732 North Capitol Street NW, Washington, DC 20401. Do not eat or drink while using these products and ensure proper ventilation is used. Wash hands after use.

Conditions for safe storage, including any incompatibilities: All employees who handle these products should be trained to handle it safely. Open packages of these products/containers on a safe stable surface and must be properly labeled at all times. Store products in original closed packages, cool dry place, while avoiding extreme temperatures or incompatible items such as acids, oxidizers and halogens. Always follow all regulations in accordance with local/regional/state/national guidelines.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Flux or other ingredients	CAS No.	EINECS#	Exposure Limit (mg/m ³)		
			OSHA PEL	ACGIH TLV	NIOSH REL
Iron (Fe) (limits as oxide fume)	7439-89-6	231-096-4	10	5 (Resp)	5.0
Tin, metal	7440-31-5	231-141-8	2	2	2
Manganese (Mn) (limits as fume) ⁽¹⁾	7439-96-5	231-105-1	1, 3.0**, 5*	0.02 (Resp) 0.1***	1.0, 3.0**
Silicon (Si)	7440-21-3	231-130-8	15 (dust) 5 (Resp)	WITHDRAWN	5 (Resp) 10 (TOTAL)
Copper (Cu) ⁽¹⁾	7440-50-8	231-159-6	1 (dust) 0.1(fume)	1 (dust) 0.2 (fume)	1.0
Zinc (Zn) Fume ⁽¹⁾	7440-66-6	231-175-3	5 mg/m ³ 5 mg/m ³ (Resp) 15 mg/m ³ (total dust)	2 (Resp) 10**	5(fume, dust) 10**
Nickel (Ni) ⁽¹⁾	7440-02-0	231-111-4	1	1.5 (inhalable fraction)	0.015
Phosphorous (yellow)	7723-14-0	231-768-7	0.1	0.1	0.1
Lead (Pb)	7439-92-1	231-100-4	0.05	0.05	0.1
Titanium (Ti) Oxide dust (1) (2)	7440-32-6	231-142-3	15(total particulate) 5 (Resp)	10, 20**	NA
Aluminum (Al) ^{(1) (2)}	7429-90-5	231-072-3	15 (total dust) 5 (Resp)	10 (dust) 1 (Resp)	15 (total dust) 5 (Resp)
Potassium Silicate	1312-76-1	215-199-1	NA	NA	NA
Sodium Silicate	1344-09-8	239-981-7	NA	NA	NA
Bentonite	1302-78-9	215-108-5	NA	NA	NA
Calcium Carbonate	1317-65-3	215-279-6	15(total dust) 5 (Resp)	3 (Resp)	10(total dust) 5 (Resp)
Calcium Fluoride	7789-75-5	232-188-7	2.5	2.5	2.5
Mica	12001-26-2	215-479-3	2, 3(Resp) (dust)	3 (Resp)	6(total dust) 3 (Resp)
Titanium Dioxide	13463-67-7	236-675-5	15(total dust)	10	Lowest feasible
Potassium Oxide	12136-45-7	235-227-6	10(total particulate) 5 (Resp)	15(total dust) 3 (Resp)	Lowest feasible
Boric Acid ***	10043-35-3	233-139-2	NA	2, 6**	NA
Acrylic Copolymer (non-haz)	None found	None found	NA	NA	NA
Borax Glass, Anhydrous ***	1303-96-4	215-540-4	NA	2, 6**	NA
Residual Monomer (non regst)	None found	None found	NA	NA	NA
Feldspar	68476-25-5	270-666-7	NA	NA	NA
Carbon dioxide (ppm values)	124-38-9	204-696-9	5,000	5,000, 30,000**	5,000, 30,000**
Carbon monoxide (ppm values)	630-8-0	211-128-3	50	25	35, 200*
Nitrogen dioxide (ppm values)	10102-44-0	233-272-6	5	0.2	1**,
Ozone (ppm values)	10028-15-6	233-069-2	0.1	0.05	0.1*
Quartz (Amorphous Silica Fume)	14808-60-7 (69012-64-2)	238-878-4 (273-761-5)	0.3(total dust)	0.025 (Resp)	0.5(Resp)

SAFETY DATA SHEET (SDS)

Revised 8/2018
Reviewed 7/2020
SDS #600

ACGIH BEL BIOLOGICAL EXPOSURE LIMITS: FLUORIDES in urine (creatinine) Prior to shift 3 mg/g & End of shift 10 mg/g

Other elements or ingredients may be present but in quantities much less than 1%.⁽¹⁾ Subject to reporting requirements of Section 302, 304, 311, 312, and 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR 370 and 372; (Resp) = Respiratory/ Respiration: ^(C) TLV & PEL for water soluble Cr. III and Cr. VI, Welding and cutting of products that contain Chromium may produce hexavalent chromium and YOU should read and follow OSHA's final rules Fed Register #:71:10099-10385 dated 02-28-2006. Occupational Safety and Health Administration 29 CFR 1910.1000 Permissible Exposure Limit (PEL). American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV[R]).*Ceiling Limit**Short Term Exposure Limit***Inhalable fraction ^(SC) = Soluble compounds
ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits used a guideline in control for health hazards but not an indication of safe and dangerous exposure limits **TLV - Threshold Limit Value** - an airborne concentration of a substance, which represents conditions under which it is generally believed that nearly all workers, may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour & **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.**OSHA** - U.S. Occupational Safety and Health Administration. **PEL - Permissible Exposure Limit** - this exposure value means the same as a TLV, except that it is limits guideline by OSHA.

Eye Protection: Wear a helmet or face shield with a filter lens shade number 12-14 or darker for arc welding. Shield other workers by providing screens and flash goggles. Use face-shield with filter lens of appropriate shade number (per ANSI Z49.1-1988, "Safety in Welding and Cutting").

Protective Clothing: Wear approved head, hand and body protection, which help to prevent injury from radiation, sparks and electrical shock. See ANSI Z-49.1. This would include wearing welder's gloves and a protective face shield and may include arm protectors, apron, hats, shoulder protection, as well as dark substantial clothing. Welders should be trained not to allow electrically live parts to contract the skin or wet clothing and gloves. The welders should insulate themselves from the work and ground.

Ventilation: Use plenty of ventilation and/or local exhaust at the arc/flare, to keep the fumes and gases below the threshold limit value within the worker's breathing zone and the general work area. Welders should be advised to keep their head out of the fumes.

Respiratory Protection: Use respirable fume respirator or air supplied respirator when welding in a confined space or general work area where local exhaust and/or ventilation does not keep exposure below the threshold limit value.

HYGIENE/ WORK PRACTICES: With all chemicals/materials, avoid getting these products ON YOU or IN YOU. Wash hands after handling these products. Do not eat or drink while handling these products. Use ventilation and other engineering controls to minimize potential exposure to these products.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color / Odor / Physical state / Form: Copper, bronze to gray round welding rods that are odorless and maybe flux coated varying in color

Odor Threshold / pH / Flash Point / Evaporation Rate / Flammability (Solid, Gas) / Upper & Lower Flammability or Explosive Limits: No data available

Vapor Pressure & Density / Relative Density / Solubility(water/other) / Partition coefficient (n-octanol/water) / Auto-ignition Decomposition temperature : No data available

SECTION X – STABILITY and REACTIVITY

Chemical stability: These products are considered stable as shipped and under normal conditions

Possibility of hazard reactions: No data and will not occur **Conditions to avoid:** Avoid exposure to extreme temperatures, Incompatible materials

Incompatible materials: Incompatible items such as acids, oxidizers and halogens Strong acids, strong oxidizers, mineral acids, and halogens.

Hazardous decomposition products: Read Substance in Section II. Welding and cutting of products that contain Chromium may produce hexavalent chromium and YOU should read and follow OSHA's final rules Fed Register #:71:10099-10385 dated 02-28-2006. Occupational Safety and Health Administration 29 CFR 1910.1000 Permissible Exposure Limit (PEL). The best method to determine the actual composition of generated fumes and gases is to take an air sample from inside the welder's helmet if worn or in breathing zone. For additional information, refer to the American Welding Society Publication, "Fumes and Gases in the Welding Environment".

SECTION XI- TOXICOLOGICAL INFORMATION

Oral/Dermal/inhalation Iron: (Human-child); TDLo: 77 mg/kg. Oral (rat); LD50:30 gm/kg. Intraperitoneal (rabbit); LDLo: 20 mg/kg. Oral (guinea pig); LD50:20 gm/kg.

Oral (rat); TDLo: 63 gm/kg/6W-C. Inhalation (rat); 250 mg/m³/6H/4W-I. Intratracheal (rat); TDLo: 450 mg/kg/15W-I. **Silicon:** Acute oral toxicity (LD50): 3160 mg/kg [Rat]. Borax Glass, Anhydrous: Dermal LD50 (rabbit) >10000 mg/kg. Boric acid: Acute oral toxicity (LD50): 2660 mg/kg [Rat] Dermal LD50 (rabbit) >2000 mg/kg.

Copper: Acute oral LD50:481 mg/kg (rat). **Zinc:** Acute oral LD50:630 mg/kg (rat). **Chromium (IV)** Acute oral toxicity LD 50 (Rat): 27-59 mg/kg Inhalation (Rat 4h): 33-70 mg/m³. **Manganese:** Acute oral toxicity (LD50): 9000 mg/kg [Rat]. **Fluoride (as F):** Acute oral LD50:4250 mg/kg (rat); **Sodium Silicate:** Acute oral LD50:1.1 g/kg (rat).

Potassium Silicate: Acute oral LD50:1500 g/kg (rat) Inhalation LC50 (rat) >2.06 g/m³ Dermal LD50 (rat) >5000 mg/kg. **Calcium Carbonate:** Acute oral LD50:6450 mg/kg

(rat); **Skin corrosion or irritation / Serious eye damage or irritation / Respiratory or skin sensitization / Germ cell mutagenicity / Reproductive toxicity / Specific target organ toxicity – single exposure / Specific target organ toxicity – repeated exposure:** Not classified **Carcinogenicity:** Arc Rays can injure eyes and burn skin.

Skin cancer has been reported. **Information on the likely routes of exposures:** Ingestion is not a likely route of exposure for this product or expected under normal use. If swallowed call physician immediately! Do not induce vomiting unless directed by medical personnel. Rinse mouth with water if person is conscious. Never give fluids or induce vomiting if person is unconscious, having convulsions, or not breathing. **Inhalation** of welding fumes and gases can be dangerous to your health. **Skin/Eye Contact:**

Arc Rays can injure eyes and burn skin. Skin cancer has been reported. **International Agency for Research on Cancer IARC-** has classified **welding fumes, & Nickel** as a possible carcinogenic to humans (Group 2B). **Borax Glass Anhydrous, Boric Acid & Manganese** as a (Group A4) Not Classifiable as a human carcinogen. **Quartz & Chromium (IV)** evaluation as carcinogenic to humans (Group 1). **Calcium Fluoride & Chromium oxides** evaluation, not classified as to carcinogenicity to humans (Group 3).

National Toxicology Program (NTP) list Nickel with Reasonably Anticipated to be a Human Carcinogen; **Quartz & Chromium (IV)** known to be human carcinogen. **OSHA**

Specifically Regulated Substances Chromium (IV) Cancer; Symptoms related to physical, chemical and toxicological characteristics: **Inhalation: Chromium (IV)** and

compounds pose a cancer risk to humans; liver damage, allergic and skin rash have been reported. Nickel and compounds pose a respiratory cancer risk, and may give skin

itch to dermatitis. Short-term (acute) overexposure to welding fumes may result in discomfort such as metal fume fever, dizziness, nausea, dryness or irritation of nose,

throat, or eyes. Pre-existing respiratory issues may be aggregated. Long-term (chronic) over-exposure to welding fumes can lead to siderosis (iron deposits in lung) and is

believed to affect pulmonary function. Manganese and Manganese compounds above safe exposure limits can affect or cause irreversible damage to the central nervous

system, including the brain: symptoms may result in impaired speech and movement, lack of energy, stiffness in legs, feet, toes, muscular weakness as well as psychological

disturbances. Reports of bronchitis and lung fibrosis have also been noted. Copper and copper alloy compounds has effects with GASTRO-INTESTINAL system.

Delayed and immediate effects and also chronic effects from short and long term exposure: There are no immediate health hazards associated with the wire or rod form

of this product. Skin, respiratory, pancreas, and liver disorders may be aggravated by prolonged over-exposures to the dusts or fumes generated by these products. Pre-

existing respiratory issues may be aggregated. Long-term (chronic) over-exposure to welding fumes can lead to siderosis (iron deposits in lung) and is believed to affect

pulmonary function. Manganese and Manganese compounds above safe exposure limits can affect or cause irreversible damage to the central nervous system, including the

brain: symptoms may result in impaired speech and movement, lack of energy, stiffness in legs, feet, toes, muscular weakness as well as psychological disturbances. Reports

of bronchitis and lung fibrosis have also been noted. Treat symptoms and eliminate overexposure.

Other information during use: Inhalation acute toxicity: Carbon dioxide LC Lo (Human, 5 min): 90000 ppm, Carbon monoxide LC 50 (Rat, 4 h): 1,300 mg/l, Nitrogen

dioxide LC 50 (Rat, 4 h): 88 ppm, Ozone LC Lo (Human, 30 min): 50 ppm,

SECTION XII- TOXICOLOGICAL INFORMATION

Ecotoxicity / Persistence and Degradability / Bioaccumulative Potential / Mobility in Soil: Acute; Fish /Aquatic *Invertebrates* Aquatic Environment = Iron= LC50 Channel catfish (*Ictalurus punctatus*) > 500 mg/l, 96 hours; Nickel LC50 Fathead minnows (*Pimephales promelas*) 2.916 mg/l, 96 hours, *EC50 Water flea* (*Daphnia obtusa*) 1 mg/l, 48 hours; Copper LC50 Fathead minnows (*Pimephales promelas*) 1.6 mg/l, 96 hours, *EC50 Water flea* (*Daphnia magna*) 0.102 mg/l, 48 hours; Zinc *EC50 Water flea* (*Daphnia magna*) 2.8 mg/l, 48 hours, LC50 Rainbow trout, Donaldson trout (*Oncorhynchus mykiss*) 0.56 mg/l, 96 hours; Boric Acid LC 50 (Razorback sucker (*Xyrauchen tezanus*), 96 h) > 100 mg/l; Sodium silicate LC 50 (Western mosquitofish (*Gambusia affinis*), 96 h): 1,800 mg/l, *EC50 (Water flea (Ceriodaphnia dubia)*, 48 h): 22.94 - 49.01 mg/l; Manganese = *EC 50 (Water flea* (*Daphnia magna*), 48 h): 40 mg/l; Potassium Silicate = *EC50 Daphnia magna (Daphnia)* > 146 mg/L, 48-hr; Sodium Silicate; *EC50 Daphnia magna (Daphnia)* = 216 mg/L, 96-hr; Bentonite LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 96 h): 19,000 mg/L; 48-hr *EC50* > 146 mg/L, *Environment-Toxicity to Aquatic Plants LC50(green algae (scenedesmus dimorphus) 3 days) 0.0623 mg/l, Persistence and Degradability / Mobility in Soil:* No data **Bioaccumulative Potential Accumulation**/The product contains potentially bioaccumulating substances. **Bioaccumulative Potential Bioconcentration Factor (BCF) Product:** No data available. **Specified substance(s):** Nickel Zebra mussel (*Dreissana polymorpha*), Bioconcentration Factor (BCF): 5,000 – 10,000 (lotic) Bioconcentration factor calculated using dry weight tissue concentration: Copper and/or copper alloys and compounds (as Cu) Blue-green algae (*Anacystis nidulans*), Bioconcentration Factor (BCF): 36.01 (Static); compounds (as Co) Brown shrimp (*Penaeus aztecus*), Bioconcentration Factor (BCF) : >2,250 -<2,500 (Static) **Other Adverse Effects:** Possibly harmful to aquatic life. Do not allow material to be released to the environment without proper governmental permits. No further relevant information available.

SECTION XIII- DISPOSAL CONSIDERATIONS

Disposal Methods: Avoid or minimize generating waste. When possible collect scrap and by-products with proper id for recycling. Waste disposal must be in accordance with appropriate Federal, National, Provincial, State, and local regulations. These products, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

SECTION XIV- TRANSPORT INFORMATION

UN Number / UN Proper shipping name / Transport Hazard class (es)/ Packing group / Marine pollutant / Special Precautions: Not Regulated as Dangerous Good or Not Regulated, No international regulations

SECTION XV- REGULATORY INFORMATION

United States: TSCA INVENTORY STATUS: The components of these products are listed on the TSCA Inventory
CERCLA REPORTABLE QUANTITY (RQ): Copper = 5000 lbs. (for particulates less than 100 micrometers in size). Nickel = 100 lbs. Chromium and Chromium compounds or alloys 5000 lbs. Manganese & = Reportable quantity: Included in the regulation but with no data values. See regulation (40 CFR 302.4).
EPCRA/SARA Title III 313 Toxic Chemicals The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent. Ingredient & Disclosure threshold: Copper 1.0% de minimis concentration; Zinc 1.0% de minimis concentration; Manganese 1.0% de minimis concentration; Nickel 0.1% de minimis concentration
Section 311 Hazard Class: As shipped: Immediate (Acute) In use: Immediate & delayed (Acute)
California Proposition 65: These products may contain or produces chemicals known to the State of California to cause cancer, and/or birth defects (or other reproductive harm). (Health and Safety Code section 25249.5 et seq.) Nickel, Titanium Dioxide, Quartz and Chromium as possible carcinogens
US State Regulations list:
Alaska-Designated Toxic and Hazardous Substances: Carbon Black, Manganese.
California-Hazardous Substances Listed substance: Carbon Black, Copper, Manganese, Silicon, Iron, Iron oxide, Nickel,
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance: Nickel - **CRT: Listed date/Carcinogenic substance:** Nickel (10-1-1989)
Florida-Substance List: Manganese **Illinois-Toxic Substance List:** Carbon Black, Copper, Manganese and Silicon.
Kansas-Section 302/313 List: Copper, and Manganese.
Massachusetts-Substance List: Carbon Black, Copper, Manganese, Nickel, Silicon
Michigan - Critical Materials Register: Copper. **Minnesota-List of Hazardous Substances:** Welding Fumes, Carbon Black, Manganese, and Silicon.
Missouri-Employer Information/Toxic Substance List: Carbon Black, Copper, Manganese, Silicon,
New Jersey-Right to Know Hazardous Substance List: Carbon Black, , Copper, Iron, Iron oxide, Manganese, Nickel, Silicon, Titanium Dioxide, Fluoride (as F) , Limestone
North Dakota-List of Hazardous Chemicals, Reportable Quantities: Copper.
Pennsylvania-Hazardous Substance List: Carbon Black, Copper, Manganese, Nickel, Silicon, Titanium Dioxide, Fluoride (as F), Limestone
Rhode Island-Hazardous Substance List: Welding Fumes, Carbon Black, Manganese, Nickel, Silicon,
Texas-Hazardous Substance List: Carbon Black, Manganese **West Virginia-Hazardous Substance List:** Carbon Black, Manganese.
Wisconsin-Toxic and Hazardous Substances: Carbon Black, Manganese.

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65WARNINGS.ca.gov.

SECTION XVI- OTHER INFORMATION

Approval Date: 9-1-2015 NEW SDS Number: 015-COPPER
HMIS® ratings Health: 2 Flammability: 0 Physical hazard: 0
NFPA CODES: FIRE: 0 HEALTH: 2 REACTIVITY: 0



U.S. DOT = Material is not hazardous and is not considered as a dangerous item.
Welding Material Sales Inc. Believes that the information contained in this (SDS) Safety Data Sheet is accurate.
Welding Material Sales Inc. does not express or implies any warranty with respect to this information.