

WELDCOTE METALS
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MSDS#114
Date Reviewed: 05/15/06

MATERIAL SAFETY DATA SHEET

FILLER METALS AND WELDING RODS

"ESSENTIALLY SIMILAR" to U.S. Department of Labor Form OSHA 20

(to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200)

Emergency Phone: 800-424-9300

Product Type: Arc Gouging Carbons

SECTION II

HAZARDOUS INGREDIENTS/ Identity Information

*IMPORTANT: This section covers materials from which this product is manufactured.

ING. OF THE PRODUCT GAS No.	OSHA PEL MG/ M3	ACGIH TLV MG/ M3	%
Copper (Copper Fume)		0.2 mg/m3	30
Carbon & Graphite		3.5 mg/m3	50-100
Alkali Halides		Note 1	6
Alkali Silicates		Note 2	4
Rare Earth Oxides		Note 3	20

#1 Principally from the group of chlorides, fluorides, bromides and iodides of sodium, potassium and lithium.

#2 Principally from the group of complex silicon oxides compounds of sodium and potassium.

#3 Principally from the group of complex oxides of lanthanum, cerium, praseodymium, and neodymium. Traces of thorium and uranium of less than 0.25% can be associated with those compounds.

SECTION III

PHYSICAL DATA

Appearance and Odor: Bare and copper coated rods, all sizes and shapes.

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media : Will not burn, use water to cool

Unusual Fire and Explosion Hazards: None currently known.

SECTION V

HEALTH HAZARD DATA

Threshold Limit Value: See Section II - Welding fume (total particulate NOC) TWA= 5mg/m³

Effects of Overexposure and Emergency and First Aid Procedures: Electrical Shock & Burns – Deactivate power. Administer CPR as indicated. Cover Burns with sterile dressing. Call a physician. Radiant Energy – can produce "flash " burns of eyes and skin. See a physician. Gases, Fumes, Dust – Overexposure can cause personal injury. Symptoms will vary according to the gouging processes and it's application. Refer to the special precautions in section IX. Noise – Overexposure can damage hearing. Wear hearing protection.

SECTION VI

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None currently known

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal use ozone, copper oxide, carbon monoxide and oxides of material in Section II

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None currently known

SECTION VII

SPILL OR LEAK PROCEDURES

NOT APPLICABLE

WASTE DISPOSAL METHOD: Normal, environmentally acceptable, industrial waste disposal. Land fill, burial, etc.

S E C T I O N V I I I

SPECIAL PROTECTION INFORMATION

Ventilation – exhaust ventilation recommended. See OSHA 29CFR1910-252 ANSI A 49.1 Special ventilation – IN confined areas local exhaust is essential.

Respiratory Protection – Depends on use, condition and location. Use adequate ventilation or personal respiratory protection.

Eye Protection – Safety spectacles or goggles. Welding gloves recommended.

Protective Equipment – See ANSI A49.1 – Welding helmet, flames retardant clothing recommended
-See A 5.3

S E C T I O N I X

SPECIAL PRECAUTIONS (SEE NOTE)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Arcs and sparks during arc gouging use could be the source of ignition of combustible materials. Prevent fires.

OTHER PRECAUTIONS: Arc fumes – The compositions and quantity are dependent alloy, electrode, number of operators, arc times, ventilation present and the relationship of operators head with respect to the fume plume, all affect the level of contaminants. When ventilation is questionable (see OSHA 19 CFR 1910.252 and ANSI A49.1 and E 1 I – 76)

Weldcote Metals believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Weldcote Metals can not make any expressed or implied warranty as to this information.