SAFETY DATA SHEET (SDS)

ARC GOUGING CARBONS SDS # 4008 Revision Date: 08/01/2018 Page 1 of 2 Welding Material Sales

For Welding Consumables and Related Products Conforms to OSHA Hazard Communication Standard 29CFR 1910.1200 Standard Must Be Consulted for Specific Requirements

SECTION I - IDENTIFICATION

Manufacturer/Supplier: Welding Material Sales	Telephone No: 630-232-6421 Emergency No: 800-424-9300			
Address: 3940 Stern Ave St. Charles IL 60174	E-mail: sales@weldingmaterialsales.com			
Part Number:	Specification:			
ACGE-CC	Internal			

SECTION II - HAZARDOUS MATERIALS*

IMPORTANT: This section covers the materials from which the product is manufactured. The fumes and gases produced during welding with the normal use of this product are covered under Section V.

*The term "HAZARDOUS MATERIALS" should be interpreted as a term required and defined in OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 however the use of this term does not necessarily imply the existence of any hazard.

Flux or other ingredients Wt.	W /4 0/	CAC N-	Exposure Limit (mg/m ³)	
	Wt.%	CAS No.	OSHA PEL	ACGIH TLV
Carbon	20-85	7440-44-0	3.5 (Carbon Black)	3.5 (Carbon Black)
Graphite	20-85	7782-42-5	2.5 (Respirable Dust)	2 (Respirable Dust)
Copper (Cu) ⁽¹⁾	10-25	7440-50-8	1 (dust) 0.1(fume)	1 (dust) 0.2 (fume)

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: 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 ⁽²⁾ Present in USA 70S-2

SECTION III - PHYSICAL DATA

As shipped these are odorless, solid rods that are nonflammable, non-explosive, non-reactive and non -hazardous and may be copper coated.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Non-Flammable: Welding arc and sparks can ignite combustibles. See Z-49.1 referenced in Section VI.

SECTION V – REACTIVITY DATA

Hazardous Decomposition Products

Welding fumes and gases cannot be classified simply. The composition and quantity of these fumes and gases are dependent upon the metal being welded, the procedures followed and the electrodes used.

Workers should be aware that the composition and quantity of fumes and gases to which they may be exposed, are influenced by: coatings which may be present on the metal being welded/cut (such as paint, plating, or galvanizing), the number of welders/operators in operation 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 procedure). When the product is consumed, the fumes and gase decomposition products generated are different in percent and form from the ingredients listed in Section II, The composition of these fumes and gases are the concerning matter and not the composition of the electrode itself. Decomposition products include those originating from the volatilization, reaction, or oxidation of the ingredients shown in Section II, plus those from the base metal, coating and the other factors noted above.

Reasonable expected fume constituents of this product would include: Complex oxides of carbon, iron, and copper. (Other complex oxides may be present).

Gaseous reaction products may include carbon monoxide and carbon dioxide

Ozone and nitrogen oxides may be formed by the radiation from the arc.

One method of determining the composition and quantity of the fumes and gases to which the workers are exposed is to take an air sample from inside the welder's helmet while worn or within the worker's breathing zone. See ANSI/AWS F1.1 publication available from the American Welding Society 550 N.W. LeJeune Road, Miami, Florida 33126.

Continued on page 2

ARC GOUGING CARBONS SDS # 4008 Revision Date: 08/01/2018 Page 2 of 2 Welding Material Sales

SECTION VI- HEALTH HAZARD DATA

Threshold Limit Value: The ACGIH recommended general limit for welding fume NOC (Not otherwise classified) is 5 mg/m³. ACGIH-1985 preface states: "The TLC-TWA should be used as guides in the control of health hazards and should not be used as fine lines between safe and dangerous concentrations." See section V for specific fume constituents, which may modify this TLV.

Common Entry Is by Inhalation.

Effects of Overexposure: Inhalation of welding fumes and gases can be dangerous to your health. Short-term (acute) overexposure to welding fumes may result in discomfort such as dizziness, nausea, or dryness or irritation of nose, throat, or eyes.

Long-term (chronic) over-exposure to welding fumes can lead to siderosis (iron deposits in lung) and is believed to affect pulmonary function.

Arc Rays can injure eyes and burn skin. Electric shock can kill. See Section VII.

Emergency and First Aid Procedures: Call for medical assistance. Use first aid procedures recommended by the American Red Cross. If breathing is difficult – give oxygen. If not breathing-use CPR (Cardiopulmonary Resuscitation).

California Proposition 65

This product may produce 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.)

Carcinogenicity

These products do not contain ingredients that are defined as carcinogenic per 29 CFR 1910.1200) - Hazard Communication Standard.

WARNING: This product can expose you to chemicals, including carbon black, which is known to the state of California to cause cancer. For more information go to www.P65WARNINGS.ca.gov.

SECTION VII - CONTROL MEASURES AND PRECAUTIONS FOR SAFE HANDLING AND USE

Read and understand the manufacturer's instructions and precautionary label on this product. See American Standard Z49.1 Safety in Welding and Cutting, published by the AMERICAN WELDING SOCIETY, 550 N.W. LeJeune Road, Miami, Florida 33126 and OSHA Publication 2206 (29 CFR 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 37954, Pittsburg, Pa 15250-7954. for more details on the following topics.

Ventilation: Use plenty of ventilation and/or local exhaust at the arc, 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.

Eye Protection: Wear a helmet or face shield with a filter lens shade number 12-14 or darker. Shield other workers by providing screens and flash goggles.

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.

Waste Disposal Method: Discard any product, residue, disposal container, or liner in an environmentally acceptable manner approved by Federal, State and Local regulations.

Welding Material Sales Inc. believes that the information contained in this Safety Data Sheet (SDS) is accurate. However, Welding Material Sales Inc. does not express or imply any warranty with respect to this information.