



MATERIAL SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name	Carbon Arc Gouging Rods		
Part Numbers	C5.0, C6.5, C8.0, C10.0, C12.7, C10.0J, C13.0J, C16.0J, C19.0J CAC5.0, CAC6.5, CAC8.0, CF515		
Other Names	None allocated		
Recommended Use	Arc gouging rods		
Supplier's Name	Independent Wholesale Welding Supply		
Address	Unit 2/170 Power Street, Glendenning, NSW. 2761		
All mail to:	PO Box 284 Doonside NSW 2767		
Telephone	61 2 8834 2400	Facsimile	61 2 8834 2498
Technical Support	61 2 8834 2400	E-mail Address iwws@iwws.net	
Web	www.iwws.net		

2. Hazards Identification

Hazardous Classification

This product is non-hazardous as sold, but is hazardous during use, according to the criteria of the ASCC; is not a DG Substance according to the ADG Code, is not a Scheduled Poison according to the SUSDP, is not a flammable or combustible liquid according to AS 1940.

Risk Phrases None allocated (see also page 2)

Safety Phrases None allocated (see also page 3)

3. Composition Information on Ingredients

Chemical name	CAS Number	Proportion
Graphite, synthetic	7782-42-5	20 - 80 %
Carbon	7740-44-0	20 - 80 %
Copper	7440-50-8	10 - 30 %

4. First Aid Measures

4.1 Symptoms of Exposure by Route

Accute	<i>Carelessly handled during use; this product will cause immediate burns to the skin or eyes. Ensure suitable precautions are taken as described in 8.3 on page 3</i>
Ingested	Not considered a likely event in any normal circumstance.
Eyes	Exposure and frequently severe pain.
Skin	Skin exposure to ultraviolet arcs may cause "sunburn" and/or a burning sensation on the skin.
Inhaled	Inhalation of welding fumes may cause fume bronchitis, deposits in the lungs and irreversible tissue damage. General symptoms may include difficulty in breathing, headaches and nausea. In severe cases loss of consciousness may result.

4.2 First Aid Instructions

Ingested	Not normally required. If a person does ingest any part of an electrode seek prompt medical assistance.
Eyes	Hold eyelids open and flush eyes with clean water for 15 minutes. Hold eyelids open and away from eye to ensure that the inside of the lids are carefully flushed clean. If symptoms persist or corneal damage is present seek prompt medical advice.
Skin	Remove contaminated clothing (under deluge shower if necessary). Wash affected area for 10 minutes with soap and water. Do not rub hard. Rinse well for a further 5 minutes and pat dry. If symptoms persist seek prompt medical advice.
Inhaled	Remove patient to fresh air. Loosen tight clothing and allow to rest. Treat for shock if required. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Unless recovery is prompt seek urgent medical advice.
First Aid Facilities	Provide normal industrial first aid facilities including eyewash stations and deluge showers, where appropriate, close to the area where product is in use.

Notes to Physician (for symptoms of over-exposure to this product see above)

Possible symptoms of Chronic Health Effects

Acute injuries only have been reported (burns being the most common)

Possible aggravated pre-existing conditions

None reported

Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reactions to the exposure. For further information contact the:

POISONS INFORMATION CENTRE 13 11 26

5. Fire Fighting Measures

5.1 Flammability and Explosion Hazards

Electrodes are not flammable.

5.2 Hazardous Combustion Products

When burning emits COX and traces of ozone/copper fumes. When in service the arc welding fumes include NOX.

5.3 Suitable Extinguishing Media

Sand, carbon dioxide water as fog or fine spray.

Hazchem Code: n.all.

5.4 Precautions for Fire Fighters and Special Equipment

Wear SCBA and full turn out uniform.

6. Accidental Release Measures

6.1 Emergency Procedures – Spills and Leaks (See Section 13 for disposal considerations)

Sweep up and collect into suitable containers. Be wary of any hot ends from recently used electrodes. Check that none of the electrodes came into contact with moisture. If any are so affected separate for drying. Return serviceable electrodes to service.

7. Handling and Storage

7.1 Handling Advice

Wear suitable protective clothing. Wear thermal protective clothing when welding and suitable respiratory protection.

7.2 Storage Advice

Store in a cool, dry and well-ventilated area. Electrodes must be kept dry.

8. Exposure Controls/ Personal Protection

8.1 Exposure Standards

The ASCC has not established Exposure Standards for the product. Standards have been set for copper as fumes and graphite. A relevant Standard for carbon has not been set.

<i>Substance</i>	<i>TWA</i>	<i>STEL</i>
Copper as fumes	0.2 mg/m ³	n.all.
Graphite	3 mg/m ³	n.all.

8.2 Engineering Control Methods

Provide local exhaust dust extractors and ventilators capable of maintaining the workplace below the exposure limits.

8.3 Personal Protective Equipment

Respiratory Protection If TWA may be exceeded at any time, wear a respirator fitted with a fume filter canister selected in accordance with AS 1716.

Eye Protection Use welders helmet fitted with dark lenses. Do not look directly at arc with unprotected eyes. Shield to AS 1337 .

Gloves Wear welding gauntlets to AS 2161

Clothing Wear Tyvec or cotton coveralls fastened at the neck and wrists.
Supplement with welder's apron as appropriate

9. Physical and Chemical Properties

Appearance	Copper coloured with black tip rods	Odour	Odourless when cold
Melting Point	n.d	Boiling Point	n.d.
Specific Gravity	>1	Density	
Flash Point	n.a	Flammability Limits	n.a.
Vapour Pressure		Vapour Density	
Solubility (H₂O)		AS1940 Class	

Other Properties

Hazardous fumes are produced when working. Electrodes which have been allowed to be in contact with moisture may explode if used while damp. Dry dampened electrode by baking for 10 hours at 150°C.

10. Stability and Reactivity

During normal handling and use the product is stable.

11. Toxicological Information

No relevant data found.

12. Ecological Considerations

Unless released in massive amounts are unlikely to pose an environmental threat.

13. Disposal Considerations

Disposal must be in accordance with local regulations for non-hazardous industrial wastes.

14. Transport Information

No DG regulatory requirements apply to the transport of this product.

15. Regulatory Information

Labeling requirements under the ADG Code, the SUSDP or the "National Code of Practice for the Labeling of Workplace Substance" [ASCC: 2012 (1994)] do not apply to this product as sold.

16. Other Information

Disclaimer

No representative of IWWS any other person has the authority to alter or amend this MSDS or the information contained therein without the prior approval of IWWS management. Any alterations render this document invalid. The information presented in this MSDS is believed by Independent Wholesale Welding Supply to be accurate at the date shown and in accordance with information available to the Company. The circumstances and methods of using, handling, transporting or storing the material are beyond our control and persons using, handling, transporting or storing the product do so at their own risk. Independent Wholesale Welding Supply accept no liability for damage or injury arising from the use of the information contained herein.

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of Issue: 28/11/2006 Preparation of Material Safety Data Sheets 2nd Edition NOHSC: 2011 (2003).

Data Sources used: in the preparation of this MSDS include: "Chempendium" and "MSDS plus Cheminfo" published in CD format by CCOHS Canada 2005 - 4. "TOMES" a CD database published by Micromedex, USA, "Hazardous Properties of Industrial Materials" Van Nostrand Rheinhold NY, USA. "List of Designated Hazardous Substances" NOHSC 10005:1999, "National Exposure Standards" NOHSC 1003:1995. **Abbreviations used:** n.d = not determined, n.a = not applicable, n.all = not allocated, SUSDP=Standard for the Uniform Scheduling of Drugs and Poisons, ADG=Australian Dangerous Goods Code, IATA =International Air Transport Association, (Dangerous Goods Regulations), IMDG=International Maritime Dangerous Goods (Code), ASCC=Australian Safety and Compensation Council. IARC=International Agency(for) Research (of) Cancer.