

SAFETY DATA SHEET

Carbon Arc Gouging Carbons DC



Version number: 1
Replaces SDS: WS0001
Issued: 2014-10-14

Not for sale in the USA

Section 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name Weldstar Carbon Arc Gouging Carbons
Article-no

Product/Article	Diameter(mm)	Packaging (kg)	Part Number
Weldstar Gouging Carbons DC	6.5	50 PCS	TAI65G
Weldstar Gouging Carbons DC	8.0	50 PCS	TAI80G
Weldstar Gouging Carbons DC	9.5	50 PCS	TAI95G

1.2 Relevant identified uses of the substance or mixture and uses advised against

Article type CAG Carbon arc Gouging (or other)
Use Arc Air gouging

1.3 Details of the supplier of the safety data sheet

Supplier SPW GROUP PTY LTD
Street address 1/15 Westgate Street
Wacol Queensland 4076
Australia
Telephone 1300 WELDER, 1300 935 337
Fax 07 3879 4130
Email info@apwgroup.com.au

1.4 Emergency telephone number

Available outside office hours No
Emergency phone number 1800 653 572

Other

Additional product information Web site: www.spwgroup.com.au

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

As shipped the product is:

Not Classified as Hazardous according to Australian, New Zealand and European regulations (refer Section 15 for references)

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Not a Dangerous Good for Transport by road, rail, air or sea according to Australian, New Zealand, European, IMO, and IATA.

GHS Classification

Not Applicable

2.2 Label elements

Not Applicable

2.3 Other hazards

When the product is used in the gouging process the most important hazards are: Overexposure to fumes and gases from gouging can be dangerous to health released from the welding process may release products that are classified as hazardous and can be dangerous to health. Refer to Section 16 for more information.
Watch out for splatter, hot metal and slag. It may cause skin burn and cause fire.
Excessive noise.
Arc rays can injure eyes and burn skin. Electric shock can kill. Avoid touching live electrical parts.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture and please refer to Section 3.2

3.2 Mixtures

Component	Chemical Symbol	Amount	CAS Number
Fixed carbon (graphite)	C	>95%	7440-44-0
Copper	Cu	<5%	7440-50-8

Section 4. FIRST AND MEASURES

4.1 Description of first aid measures

Inhalation	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms occur.
Skin contact	Burns should be treated by a doctor.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Burns from radiation, see doctor.
Ingestion	Contact a doctor if more than an insignificant amount has been swallowed.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Welding can generate fumes, mists, dust, vapours and gases, including ozone. The amounts and types of fumes produced vary greatly depending on the process involved and the materials being used such as metals, solvents, flux, paint and plastics. The health
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effects of exposure to fumes, dust, vapour and gases can vary. Effects can include irritation of the upper respiratory tract (nose and throat), tightness in the chest, asphyxiation, asthma, wheezing, metal fume fever, lung damage, bronchitis, cancer, pneumonia or emphysema.

4.3 Indication of any immediate medical attention and special treatment needed

Acute effects include irritation of the eyes, nose and throat, shortness of breath

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂), powder or diffuse jet of water. In case of major fire: Extinguish fire with diffuse jet of water or foam.

5.2 Special hazards arising from the substance or mixture

Avoid contact with strong acids or other substances which are corrosive to metals

5.3 Advice for fire fighters

Special protective equipment for fire fighters Wear self contained breathing apparatus as in a fire welding rods may decompose on heating and produce hazardous decomposition products

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits. Use respiratory equipment when welding in a confined space. Wear protective clothing and eye protection appropriate to arc welding. Skin contact should be avoided to prevent possible allergic reactions.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Spills to be cleaned up immediately using dry clean up methods and avoid dust generation
Use appropriate PPE to prevent contact with skin

6.4 Reference to other sections

For *Personal protection* see section 8. For *Disposal* see section 13. For *Environmental precautions* see section 12. For *Precautions for safe handling* see 7.1.

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Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions Ensure adequate ventilation for the welder and others. Use respiratory equipment when welding in a confined space. Wear protective clothing and eye protection appropriate to arc welding. Remove all flammable materials and liquids before welding.

General hygiene Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store welding consumables inside a with low humidity.. Do not store welding consumables directly on the ground or beside walls. Store away from chemical substances like acids which could cause chemical reactions.

7.3 Specific end use(s)

Welding process.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Fume component	CAS No.	TWA ¹ (mg/m ³)	STEL ¹ 15min TWA	Hazard Classificat ion 67/548/EC	Hazard Classificat ion (GHS) 1272/2008
Welding fumes (not otherwise classified)	-	5			
Copper Fume	7440-50-8	0.2			
Iron oxide fume (as Fe)	1309-37-1	5			
Graphite- Respirable dust	7440-44-0	3			
Carbon Dioxide	124-38-9	9000	54000		
Carbon Monoxide	630-08-0	34			
Nitrogen dioxide (NO ₂)	10102-44-0	5.6	9.4		
Ozone (O ₃)	10028-15-6	0.2 peak limitation			
Nitrogen monoxide (NO)	10102-43-9	31	0		

1. Extracted from Safework Australia, Hazardous Substances Information System (HSIS) & Worksafe New Zealand Table of workplace exposure standards

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8.2 Exposure controls

Environmental Exposure Controls – Refer to Section 6 of this SDS

Technical precaution measures	General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits.
Eye / face protection	Workers should always have their eyes, face and/or head protected whenever they are welding. For further information refer to: AS/NZS 1338: (series) Filters for eye protectors, AS/NZS 1338.1: Filters for eye protectors - Filters for protection against radiation generated in welding and allied operations and AS/NZS 1336: <i>Recommended practices for occupational eye protection</i> and AS/NZS 1337: <i>Eye protectors for industrial applications</i>
Hand/Arm protection	Gloves should be fire resistant and protect exposed skin on the hands and wrists. For further information refer to: AS/NZS 2161: (series) <i>Occupational protective gloves</i> .
Other skin protection	Avoid clothing that has the potential to capture hot sparks and metals, for example in pockets or other folds. Clothing should be made of natural fibres. For further information refer to: AS/NZS 4502: (series) <i>Methods for evaluating clothing for protection against heat and fire</i> . Foot protection should be non-slip and be heat and fire resistant. Avoid using foot protection that has the potential to capture hot sparks and metal debris, for example in laces or in open style shoes. For further information refer to: AS/NZS 2210: (series) <i>Occupational protective footwear</i> and AS/NZS 2210.1: <i>Safety, protective and occupational footwear - Guide to selection, care and use</i> .
Respiratory protection	Respirators should be fitted for each person individually and if one is to be used by another operator, it must be disinfected and refitted before use. The tightness of all connections and the condition of the face piece, headbands and valves should be checked before each use. Air supplied respirators may be required in some situations, e.g. confined spaces. For further information refer to: AS/NZS 1716: <i>Respiratory protective devices</i> and be selected in accordance with AS/NZS 1715: <i>Selection, use and maintenance of respiratory protective equipment</i> .
Eye / face protection	Workers should always have their eyes, face and/or head protected whenever they are welding. For further information refer to: AS/NZS 1338: (series) Filters for eye protectors, AS/NZS 1338.1: Filters for eye protectors - Filters for protection against radiation generated in welding and allied operations and AS/NZS 1336: <i>Recommended practices for occupational eye protection</i> and AS/NZS 1337: <i>Eye protectors for industrial applications</i>

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour	Grey
Appearance, physical state	Rod
Auto-ignition temperature	Not applicable
Auto-inflammability	Not auto-flammable
Decomposition temperature	Not applicable
Evaporation rate	Not applicable
Explosive properties	Not explosive
Flammability (solid gas)	Not applicable
Flash point	Not applicable
Form	Fast
Initial boiling point and boiling range	Not applicable
Melting point / Freezing point	Not applicable
Odour	Odourless
Odour threshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH value	Not applicable
Relative density	Not applicable
Solubility	Not applicable
Solubility in water	Insoluble
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable

9.2 Other information

Not applicable

Other

Density	2.26g/cm ³
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Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactive with incompatible materials such as strong acids/corrosives

10.2 Chemical stability

Stable at normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur

10.4 Conditions to avoid

None under normal conditions

10.5 Incompatible materials

Strong acids and metal corrosives

10.6 Hazardous decomposition products

Welding fumes and gases. Additional fume may arise from coatings and contaminants on the base material.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Conditions to avoid: none in the form supplied

When welding, fumes and gases generated can be dangerous to health.

Acute toxicology

Excessive exposures may affect human health, as follows: Aspiration may cause pulmonary oedema and pneumonitis Short-term overexposure can cause dizziness, nausea and irritation of the nose, throat or eyes.

Irritation

Not applicable

Corrosive effects

Not available

Sensitisation

May cause sensitisation by skin contact

Mutagenicity

Not available

Carcinogenicity

Welding fumes are possibly carcinogenic to humans and have been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans

Repeated dose toxicity

Not available

Reproductive toxicity

Not available

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Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

The welding process can effect the environment if fume is released directly into the atmosphere. Residues from welding consumables could degrade and accumulate into soils and ground water.

Acute fish toxicity Not available

Acute algae toxicity Not available

Acute crustacean toxicity Not available

12.2 Persistence and degradability

Not available

12.3 Bio accumulative potential

Not available

12.4 Mobility in Soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations Recycle packing materials. Dispose of any product, residue or packing material according to national and local regulations. Spent; fume extraction filters shall be disposed of as hazardous waste.

Section 14. TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

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14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other

Dangerous goods Not classified as a dangerous good for transport by air, land, or sea

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture.

EU regulations

Dangerous Goods Regulations/2014 (IATA)

International Maritime Dangerous Goods/2012 (IMO)

Regulation (EC) No 1271/2008 [CLP]

Dangerous Substances Directive (67/548/EEC)

National regulations

Model Work and Safety Regulations 2014 (Safework Australia)

Hazardous Substances [Classification] Regulations 2001 [New Zealand]

Australian Code for the transport of Dangerous Goods by Road and Rail Volume 7/2011 (NTC)

Land Transport Rule 45001/1 (New Zealand)

Local laws and regulations should be carefully observed.

15.2 Chemical safety assessment

Not applicable

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Section 16. OTHER INFORMATION

References to key literature and data sources

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council.
Safework Australia: Hazardous Substances Information System (HSIS)
Worksafe New Zealand: Table of workplace exposure standards
Annex VI CLP Regulation (EC) 1272/2008
Safework Australia: Code of Practice : Welding Processes/2012

Other

Manufacturer's notes *Read this Safety Data Sheet carefully and become aware of hazards implied and the safety information.*

Details of Hazards relating to fumes As a result of intended normal use, decomposition products that are classified as Hazardous may be released.

GHS Classification Acute Toxicity – Inhalation (Hazard Category 4)
Carcinogenicity (Hazard Category 2)

Hazard statement(s) H332 – Harmful if inhaled
H351 – Suspected of causing cancer

Precautionary statements (s): **Prevention**
P261 -Avoid breathing dust/fume/gas/mist/ vapours/spray
P271 - Use only outdoors or in a well-ventilated area.
P201 - Obtain special instructions before use.
P202 – Do Not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required.

Response
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell..
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Storage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store Locked up

Disposal
P501 - Dispose of contents/container in accordance with local , state and national regulations.

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