

**ARC PLUS 6 AIRGAS CARBON STEEL
SOLID WELDING WIRE****SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING***1.1 Product identifier***Trade name** ARC PLUS 6 AIRGAS CARBON STEEL SOLID WELDING WIRE*1.2 Relevant identified uses of the substance or mixture and uses advised against***Product type** Solid wire for exclusive use in welding applications.*1.3 Details of the supplier of the safety data sheet***Supplier** AIRGAS INC.**Street address** 259 North Radnor-Chester Road
Suite 100
PA 19087-5283 Radnor
USA*1.4 Emergency telephone number***Emergency phone number** 1-800-424-9300**Available outside office hours** Yes**SECTION 2. HAZARDS IDENTIFICATION***2.1 Classification of the substance or mixture***Description** When this product is used in a welding process, the most important hazards are welding fumes, heat, radiation and electric shock.*2.2 Label elements***More information** The product does not require labeling.*2.3 Other hazards*

This product is not considered hazardous as provided.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS*3.2 Mixtures*

<i>Chemical name</i>	<i>CAS No. EC No. REACH No.</i>	<i>Concentration</i>	<i>Classification</i>	<i>R-phrase H-phrase</i>
Iron	7439-89-6 231-096-4	<100%	- -	- -

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	01-2119462838 - 24			
Manganese	7439-96-5 231-105-1 01-2119449803 - 34	1 - 2%	- -	- -
Silicon	7440-21-3 231-130-8 -	<1,2%	- -	- -
Carbon	7440-44-0 231-153-3 -	<0,5%	- -	- -
Copper	7440-50-8 231-159-6 01-2119480154 - 42	<0,5%	- -	- -

Substance additional information

Iron = Bal.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

If breathing has stopped, apply artificial respiration.

Skin contact

Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye contact

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

Ingestion

DO NOT induce vomiting unless directed to do so by a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed

When this product is used in a welding process, the most important hazards are welding fumes, heat, radiation and electric shock.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Not applicable

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Not applicable

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

Not applicable

6.4 Reference to other sections

Not applicable

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions

No special technical protective measures required. Use protective gloves.

7.2 Conditions for safe storage, including any incompatibilities

S14 - Keep away from strong acids. S14 - Keep away from strong bases.

7.3 Specific end use(s)

Solid wire with copper coating specifically designed for use in welding applications.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

OSHA PEL (mg/m3): Copper (mists and dust) = 1, ACGIH TLV (mg/m3): Copper (mists and dust) = 1
 OSHA PEL (mg/m3): Copper (fume) = 0.1, ACGIH TLV (mg/m3): Copper (fume) = 0.2
 OSHA PEL (mg/m3): Iron (as iron oxide) = 10 (fume), Manganese = 5 (Ceiling), Manganese (fume) = 5 (Ceiling),
 Silicon = 15 (total dust) ACGIH TLV (mg/m3): Iron = 5 (respirable fraction), Manganese = 0.02
 (respirable fraction), Manganese (fume) = 0.2

National occupational exposure limits

CAS No.	EC No.	Exposure Limit Values ppm / mg/m3	Short term exposure limit ppm / mg/m3	Ceiling Limit Value ppm / mg/m3	Country
7440-21-3	-	- 4	- -	- -	BA
7440-50-8	-	- 0,2	- 2	- -	BA

8.2 Exposure controls

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Technical precaution measures	Provide adequate ventilation.
Eye / face protection	Safety glasses
Safety gloves	P280 Wear protective gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES*9.1 Information on basic physical and chemical properties*

Appearance	Solid, non-volatile with varying color
Appearance, colour	Varying color
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Initial boiling point and boiling range	Not applicable
Melting point	>1000 degrees celsius
Melting point / freezing point	Not applicable
Odour	Not applicable
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH value	Not applicable
Relative density	Not applicable
Solubility	Not applicable
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable

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Not applicable

SECTION 10. STABILITY AND REACTIVITY*10.1 Reactivity*

This product is only intended for normal welding purposes.

10.2 Chemical stability

Stable under recommended storage conditions. Stable at normal conditions

10.3 Possibility of hazardous reactions

Strong acids and strong bases

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION*11.1 Information on toxicological effects***Acute toxicity** Not applicable**Irritation** Not applicable**Corrosive effects** Not applicable**Sensitisation** Not applicable**Mutagenicity** Not applicable**Carcinogenicity** Not applicable**Repeated dose toxicity** Not applicable**Reproductive toxicity** Not applicable**SECTION 12. ECOLOGICAL INFORMATION***12.1 Toxicity*



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Aquatic Not water endangering

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations Dispose of contents/container in accordance with local regulation.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

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



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Not applicable

SECTION 15. REGULATORY INFORMATION

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

National regulations

Canada: WHMIS classification: Class D; Division 2, Subdivision A - Canadian Environmental Protection Act (CEPA): All constituents of these products are on the Domestic Substance List (DSL). USA EPA Toxic Substance Control Act: All constituents of these products are on the TSCA inventory list or are excluded from listing. 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. Copper and Manganese (see section 3)

15.2 Chemical safety assessment

Not applicable

SECTION 16. OTHER INFORMATION

Other

Additional information

For further information, please also consult our internet site. This information is derived from practical experience. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.