

MATERIAL SAFETY DATA SHEET FOR BOSS MS GASWELD RODS



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Mild Steel Gas Weld Rod
Intended use:	Oxy-Fuel Gas Welding
Trade Name:	BOSS MS Gasweld Rod
Supplier of product:	The BSS Group plc
Registered Office:	Fleet House, Lee Circle, Leicester, LE1 3QQ
Telephone/Fax Numbers:	0116 262 3232 / 0116 253 1343
E-mail Address	reception@bssgroup.com
Web site Address	www.bss-group.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Main Constituents:	Value (s) %	CAS No/EC No/EC Index	Symbol (s)	R-Phrase (s)
Iron	96 to 98	7439-89-6 / 231-096-4 / ----		
Manganese	0.1 to 1%	7439-96-5 / 231-105-1 / ---		
Silicon	<0.2%	7440-21-3 / 231-130-8 / ---		

3. HAZARD IDENTIFICATION

Risk by welding use	
Heat:	Spatter and melting metal can cause burn injuries
Radiation:	UV, IR radiations. Arc spray can severely damage eyes and skin
Fumes:	Formation of dangerous fumes during use. Inhalation of welding fumes may cause respiratory irritation. Cough. Excessive or prolonged inhalation of fumes may cause metal fume fever.
Electricity:	Electric shock can kill
Magnetic Fields:	Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer or the device.

4. FIRST AID MEASURES

Eye Contact:	Rinse immediately with plenty of water. Seek medical attention immediately
Skin Contact:	Take off immediately all contaminated clothing. Flush with plenty of water. Seek medical advice
Inhalation:	Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
Ingestion:	Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.

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5. FIRE FIGHTING MEASURES

Flammable Class:	The product is not flammable
Prevention:	Welding hot slag or sparks may cause fire
Extinguishing Media:	Powder. Foam. Carbon dioxide
Protection against Fire:	Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Equipment cleanup crew with suitable protection
After Spillage or Leakage:	On land sweep or shovel into suitable containers

7. HANDLING AND STORAGE:

Storage precautions:	Store in a dry protected location to prevent moisture contact. Keep container closed when not in use
Handling:	Provide local exhaust or general room ventilation to minimise fume concentration. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/fumes/vapour
Eye Protection:	Use a protection mask equipped with suitable filter glass Interdiction to wear contact lens
Skin Protection:	Skin protection appropriate to the conditions of use should be provided
Hand Protection:	Welding gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Colour:	Copper
Odour:	Odourless
Melting Point °C:	Ca. 1500

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10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions (<300°C)
Materials to Avoid:	Contact with chemical substances eg. Acids which could cause generation of gas
Hazardous Decomposition Products:	Formation of dangerous fumes during use. Welding fumes are classified carcinogen by the IARC (International Agency for Research on Cancer): Group 2B Cancer suspect agent. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides & ozone.
Fume Data Sheet:	According to process conditions, hazardous decomposition may be generated. These hazardous products could include those from the reaction or oxidation of the components listed in section 3 or included in base material.
Fume Emission Rate:	The amount of fumes generated change with the welding parameters and the diameters of the consumable. Refer to applicable national exposure limits for fume compounds and national exposure limits for fume.
Other information:	<p>In case of work on parts covered by coatings such as: lubricants, solvent, paint, metallic compounds, grease etc. The thermal or photochemical decomposition products of these elements cumulate with dust and fumes emitted by the melting of the welding product.</p> <p>The solution to adopt must be, in any case, preceded by a spot study. Refer to the document "Health & Safety in Welding" published by the International Institute of Welding (IIS/IIW)</p>

11. TOXICOLOGICAL INFORMATION

Toxicity Information:	The material or its emissions may induce an allergic or sensitisation reaction and thereby aggravate existing systemic disease
Acute Toxicity:	Inhalation of welding fumes may cause respiratory irritation, nausea, fever, giddiness, eye irritation
Chronic Toxicity:	Overexposure to welding fumes may cause: Pulmonary/bronchial disease and/or cause breathing difficulty

12. ECOLOGICAL INFORMATION

Ecological Effects Information:	Avoid release to the environment. Do not discharge in sewers
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13. DISPOSAL CONSIDERATIONS

Disposal:	Dispose in a safe manner in accordance with local/national regulations
Industrial Waste Number:	120113 Welding Wastes 120101 Ferrous metallic scrap

14. TRANSPORT INFORMATION

General Information:	Not regulated
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15. REGULATORY INFORMATION

Symbols:	None
Risk Phrases:	None
Safety Phrases:	None

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16. OTHER INFORMATION

Warning:	Fumes and gases emitted during welding may be dangerous. Good ventilation of the workplace required.
Directive 2002/95/CE (ROHS)	Can be used in the fabrication of electric & electronic devices
Training Advice:	Ensure that the user is aware of the potential hazards and knows what to do in the event of an accident or an emergency.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.