

SDS identifier: MG-50: (Rev. 2.0)

acc. to Regulation (EC) No. 1907/2006 (REACH)

## MG-50

Version number: 2.0
Revision: 2017-07-12
Replaces version of: 2014-04-23 (1)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name MG-50 (solid wire for Gas Shielded arc welding)

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Welding and soldering product

The product is intended for professional use

welding (welding process)

## 1.3 Details of the supplier of the safety data sheet

Kobelco Welding of Europe B.V. Eisterweg 8 6422 PN Heerlen Netherlands

Specific process or activity

Telephone: +31(0)45-5471111 Telefax: +31(0)45-5471100 e-mail: info@kobelcowelding.nl

e-mail (competent person) info@kobelcowelding.nl

#### 1.4 Emergency telephone number

Emergency information service  $\pm 31(0)45-54711111$ 

This number is only available during the following office hours: Mon-

Fri 09:00 - 17:00

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Code	Supplemental hazard information
EUH210	safety data sheet available on request

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

signal wordpictogramsNot required.

- supplemental hazard information

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

There is no additional information.

Avoid breathing dust. Avoid contact with eyes. Avoid skin contact.

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

Shock: electric shock can kill.

Fumes: Overexposure to welding fumes may result in symptoms like dizziness, nausea, dryness or irritation of the nose, throat or eyes. Chronic overexposure to welding fumes may affect pulmonary function.

Gases: gases may cause gas poisoning.

Radiation: arc rays can severely damage eyes or skin.

Spatter, slag and heat: spatter and slag can damage eyes. Spatter, slag, melting material, arc rays and hot welds can cause burn injuries and start fires.

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#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

The product does not contain any (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the substance and hence require reporting in this section.

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
Copper Powder	CAS No 7440-50-8 EC No 231-159-6	≤1	Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	*			

#### Remarks

For full text of H-phrases: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Disconnect and turn off the power. If the victim is semi- or unconscious, open the airway. If the victim cannot breath, give artificial respiration. If there is no pulse, massage the chest and apply artificial respiration.

#### Electrical shock

Disconnect and turn off the power. If the victim is semi- or unconscious, open the airway. If the victim cannot breath, give artificial respiration. If there is no pulse, massage the chest and apply artificial respiration.

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. If experiencing respiratory symptoms: Call a doctor.

#### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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#### 4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the anti poison control centre.

#### **SECTION 5: Firefighting measures**

#### 5.1 **Extinguishing media**

Suitable extinguishing media

Alcohol resistant foam, Dry extinguishing powder, Carbon dioxide (CO2), Water spray

#### Special hazards arising from the substance or mixture 5.2

No further relevant information available.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.

#### 5.3 **Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

#### 6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. Take up mechanically.

Advices on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep away from fire.

Recommendations

 measures to prevent fire as well as aerosol and dust generation No special measures are necessary.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- explosive atmospheres
- Removal of dust deposits.
   flammability hazards
- Keep away from fire. Keep away from combustible material.
- incompatible substances or mixtures Acids, Alkalis, Oxidisers

Control of effects

Protect against external exposure, such as

High temperatures, Humidity

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- general rule

Store welding consumables inside a room without humidity. Do not store welding consumables directly on the ground or beside a wall. Keep welding consumables away from chemical substances like acids which could cause chemical reactions.

ventilation requirements
 Use local and general ventilation.

#### 7.3 Specific end use(s)

Welding (welding process).

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **National limit values**

Occup	Occupational exposure limit values (Workplace Exposure Limits)								
Cou	Name of agent	CAS No	Nota- tion	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
EU	manganese	7439-96-5	i	IOELV		0.2			2017/164/E U
GB	dust		i	WEL		10			EH40/2005
GB	dust		r	WEL		4			EH40/2005
GB	manganese	7439-96-5		WEL		0.5			EH40/2005
GB	silicon	7440-21-3	i	WEL		10			EH40/2005
GB	silicon	7440-21-3	r	WEL		4			EH40/2005
GB	copper	7440-50-8	dm	WEL		1		2	EH40/2005

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Occup	Occupational exposure limit values (Workplace Exposure Limits)								
Cou	Name of agent	CAS No	Nota- tion	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
GB	copper	7440-50-8	fume	WEL		0.2			EH40/2005

Notation

dm as dusts and mists fume as fume i inhalable fraction r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless oth-

erwise specified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted

average

#### Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of co	mponents of t	he mixture				
Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Copper Powder	7440-50-8	DNEL	1 mg/m³	human, inhalatory	worker (industry)	acute - local ef- fects
Copper Powder	7440-50-8	DNEL	273 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Copper Powder	7440-50-8	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Copper Powder	7440-50-8	DNEL	1 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
Copper Powder	7440-50-8	DNEL	137 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of co	Relevant PNECs of components of the mixture						
Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time	
Copper Powder	7440-50-8	PNEC	7.8 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)	
Copper Powder	7440-50-8	PNEC	5.2 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)	
Copper Powder	7440-50-8	PNEC	230 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	
Copper Powder	7440-50-8	PNEC	87 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)	
Copper Powder	7440-50-8	PNEC	676 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)	
Copper Powder	7440-50-8	PNEC	65 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)	

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#### 8.2 Exposure controls

#### Appropriate engineering controls

Use enough ventilation, local exhaust at the arc, or both, to keep the fumes and gases below the TLVs in the worker's breathing zone and the general area. Use extra ventilation when welding galvanized plate or coated plate.

Individual protection measures (personal protective equipment)

Eye/face protection



Wear helmet or use face shield with filter lens. As a rule of thumb, start with a shade which is too dark to see the weld zone. Then go to the next lighter shade which gives sufficient view of the weld zone. Provide protective screens and flash goggles, if necessary, to shield others.

#### Skin protection

Protective clothing (EN 340).

- hand protection



Welding gloves according to EN12477:2001 and A1:2005 in case of arc welding. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The exact break through time should be requested at the protective glove manufacturer and must be observed.

- breakthrough times of the glove material
- >480 minutes (permeation: level 6).
- other protection measures



Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Wear head, hand and bodyprotection which help to prevent injury form radiation, sparks and electric shock. At a m inimum this includes welder's gloves and protective face shield and may include arm protectors, aprons, hats, shoulder protection as well as dark substantial clothing.

Train the welder not to touch live electrical parts and to insulate himself from work and ground.

#### Respiratory protection



Use respirable fume respirator or air supplied respirator when welding in confined space or where local exhaust or ventilation does not keep exposure below TLV. Keep head out of the fumes and gases.

#### Ear protection



Wear earplugs or earmuffs when using engine driven arc welding machine or pulsed arc welding machine that generates high-level noise.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	solid (electrode)
Colour	grey
Odour	odourless

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## Other safety parameters

pH (value)	not applicable
Melting point/freezing point	>723 K
Initial boiling point and boiling range	not determined
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

#### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	information on this property is not available
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidising properties	none

## 9.2 Other information

Of no significance.

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#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Contact with chemical substances could cause generation of gas.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Reacts with:. Acids. Alkalis. Oxidising substances.

#### 10.4 Conditions to avoid

Keep away from heat.

#### 10.5 Incompatible materials

Oxidisers, Acids, Alkalis

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous decomposition products includes those from the volatilization, reaction or oxidation of the material listed in section 3 and those from the base metal and coating. Manganese has a low exposure limit, in some countries, that may be easily exceeded. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Reasonably expected fume constituents of this product would include oxides of metals

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Inhalation of welding fumes and gases can be dangerous to your health. The composition and quantity of both are dependent upon the material being worked, the process, procedures and consumables used.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Overexposure to gases, fumes and dusts may inclide irritation of the eyes, lungs, nose and throat. Some toxic gases (associated with welding) may cause pulmonary edema, asphyxiation and death. Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing or chest pain.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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#### Summary of evaluation of the CMR properties

Welding fumes (not otherwise specified) are possibly carcinogenic to humans.

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure). Overexposure to air contaminants may lead to their accumulation in the lungs, a condition which may be seen as dense areas on chest X-rays. The severity of the change is proportional to the length of the exposure. The changes may be caused by non-work factors such as smoking, etc. Long term exposure to welding and allied processes gasses, dusts and fumes may contribute to pulmonary irritation or pneumoconiosis. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances and spastic gait. The effect of manganese on the nervous system is irreversible. Inhalation of to much iron oxide fume over a long time can cause siderosis, sometimes called "iron pigmentation" of the lung, which can be seen on a cest x-ray but causes little or no disability. Chronic overexposure to iron (>50-100 mg Fe per day) can result in pathological deposition of iron in body tissues of which are firbrosis of the pancreas, diabetes mellitus and lever cirrhosis. Overexposure to copper fumes may lead to copper poisoning, resulting in hemolytic anemia and liver, kidney and spleen damage.

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

No further relevant information available.

#### 12.3 Bioaccumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

Not mobile.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other adverse effects

No further relevant information available.

Endocrine disrupting potential

None of the ingredients are listed.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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## **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class

14.4 Packing group not relevant

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regu-

lations

14.6 Special precautions for user

There is no additional information.

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

No data available.

#### Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

## Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

#### List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

#### **Seveso Directive**

2012/1	2012/18/EU (Seveso III)							
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes					
	not assigned							

# Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Pollutant release and transfer registers (PRTR)			
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)
Copper Powder	7440-50-8	(8)	100

#### Legend

(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

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#### Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

#### Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

#### 15.2 **Chemical Safety Assessment**

No chemical safety assessment has been carried out for this mixture.

#### **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Complete revised version.

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations			
2017/164/EU	Comission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU			
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)			
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreemen concerning the International Carriage of Dangerous Goods by Road)			
Aquatic Acute	Hazardous to the aquatic environment - acute hazard			
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard			
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)			
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures			
CMR	Carcinogenic, Mutagenic or toxic for Reproduction			
DGR	Dangerous Goods Regulations (see IATA/DGR)			
DMEL	Derived Minimal Effect Level			
DNEL	Derived No-Effect Level			
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)			
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)			
EINECS	European Inventory of Existing Commercial Chemical Substances			
ELINCS	European List of Notified Chemical Substances			
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations			
IATA	International Air Transport Association			
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)			
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods Code			
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008			
IOELV	Indicative occupational exposure limit value			
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")			
NLP	No-Longer Polymer			
PBT	Persistent, Bioaccumulative and Toxic			

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Abbr.	Descriptions of used abbreviations
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### Warning text on the label

WARNING: PROTECT yourself and others. Read and understand this information.

FUMES AND GASES can be hazardous to your health.

ARC RAYS can injure eyes and burn skin.

ELECTRIC SHOCK can KILL

- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheets (MSDSs), and your employer's safety practices.
- Keep your head out of the fumes.
- Use adequate ventilation, exhaust at the arc, or both, to keep fumes and gases from your breathing zone and the general area.
- · Wear correct eye, ear, and body protection.
- · Do not touch free electrical parts.

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