

# Material Safety Data Sheet



E6013

Page No: 1 of 4

## 1.PRODUCT

**Trade Name:** E6013

## 2.COMPOSITION/INFORMATION ON INGREDIENTS (WT.%)

Product Trade Name	C	Mn	Si
E6013	≤0.20	≤1.20	≤1.00

## 3.HAZARDS IDENTIFICATION

Avoid eye contact or inhalation of dust from the product. Skin contact is normally not hazardous but should be avoided to prevent possible allergic reaction. Occupational exposure limits of components are described in section 2. 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 metal, are rays and hot welds can cause burn injuries and start fires.

## 4.EMERGENCY FIRST AID MEASURES

In case of emergency, call for medical aid. Employ first aid technique recommended by the Red Cross.

**General:** Move to fresh air and call for medical aid.

**Inhalation:** If breathing is difficult, provide fresh air.

**Skin contact:** Cool area with ice or cold water.

**Eye contact:** Do not rub eyes. Rinse eyes with clean water.

**Electric shock:** Disconnect and turn off 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.

## 5.FIRE FIGHTING MEASURES

No specific for welding consumables

E6013

Page No: 2 of 4

## 6.ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to section 8

**Environmental precautions:** Refer to section 13

**Method for cleaning up:** Refer to section 13

## 7.HANDLING AND STORAGE

### Prevention of electric shock:

Do not touch live electrical parts such as the welding wire and welding machine terminals. Wear insulated gloves and safety boots.

### Prevention of fire and explosion:

Remove flammable and combustible materials and liquids.

### Prevention of harm when handling welding consumables:

Handle with care to avoid stings and cuts. Hold the welding wire manually when loosening the wire.

### Caution for storage:

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.

## 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ventilation:

Use enough ventilation, local exhaust at the arc, or both, in the worker's breathing zone and the general area. Use extra ventilation while welding.

### Respiratory protection:

Use respirable fume respirator or air supplied respirator while welding in confined space or where local exhaust or ventilation is not good. Keep head out of the fumes and gases.

### Eye protection:

Wear helmet or use face shield with filter lens. Provide protective screens and flash goggles, if necessary, to shield others.

### Protective clothing:

Wear head, hand, and body protection which help to prevent injury from radiation, sparks and electric shock. At a minimum, this includes welder's gloves and a 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.

# Material Safety Data Sheet



E6013

Page No: 3 of 4

## Ear protection:

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** solid, non-volatile

**Form:** WELDING ELECTRODES ranging in diameter from 2.5mm to 5.0mm

## 10. STABILITY AND REACTIVITY

**General:** This product is intended only for normal welding purposes.

**Stability:** This product is stable under normal conditions.

**Reactivity:** Contact with chemical substances like acids could cause generation of gas.

Hazardous decomposition products includes those from the volatilization, reaction or oxidation of the materials listed in section 2 and those from the base metal and coating.

Reasonably expected fume constituents of this product would include oxides of metals as manganese .

Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone.

## 11. TOXICOLOGICAL INFORMATION

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.

**Acute toxicity:** Overexposure to welding fumes may result in symptoms like dizziness or irritation of the nose, throat or eyes.

**Chronic toxicity:** Overexposure to welding fumes may affect pulmonary function. Overexposure of manganese may affect the nervous system.

## 12. ECOLOGICAL INFORMATION

Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater.

## 13. DISPOSAL CONSIDERATIONS

Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with local regulations. Use recycling procedures if available. Residues from welding consumables and processes could degrade and accumulate in soils and groundwater.

## 14. TRANSPORT INFORMATION

No international regulations or restrictions are applicable.

# Material Safety Data Sheet



E6013

Page No: 4 of 4

## 15. REGULATORY INFORMATION

### Warning text on label:

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 enough 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 live electrical parts.

## 16. OTHER INFORMATION

Refer to:

This Material Safety Data Sheet (MSDS) describes the products with respect to safety requirements. The information given in this MSDS is based on the present level of our knowledge and experience. We request the users of this product to study the MSDS and become aware of product hazards and safety information. The data given is not intended as a confirmation of product properties and does not constitute a legal contractual relationship, nor should it be used as basis for ordering these products.



Specialised Welding Products Ltd

Head Office Unit 1, Farringdon Industrial Centre, Farringdon, Nr Alton, Hampshire GU34 3DD, UK  
tel: +44 (0)1420 588180 • fax: +44 (0)1420 588184 • email: sales@swp.uk.net

Northern Depot Building 200, Empress Park, Penny Lane, Haydock WA11 0QZ, UK  
tel: +44 (0)1942 719930 • fax: +44 (0)1942 729937 • email: airtales@swp.uk.net

[www.specialisedwelding.co.uk](http://www.specialisedwelding.co.uk)