

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### Weldability SG2 Mild Steel MIG Welding Wire

Revision 0  
Revision date 2011-04-08

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

##### 1.1. Product identifier

|              |   |
|--------------|---|
| Product name | Weldability SG2 Mild Steel MIG Welding Wire |
| Product code | VZ18[06/08/10/12] [07/50/15] [L/LW/LCE]     |

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

|             |  |
|-------------|--|
| Product Use | [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU15] Manufacture of fabricated metal products, except machinery and equipment; [PC38] Welding and soldering products (with flux coatings or flux cores.), flux products; |
|-------------|--|

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

|                                       |   |
|---------------------------------------|---|
| Company                               | Weldability   Sif   |
| Address                               | Peters House,<br>The Orbital Centre,<br>Icknield Way,<br>Letchworth Garden City,<br>Hertfordshire,<br>SG6 1ET.<br>UK.<br><a href="http://www.weldability-sif.com">www.weldability-sif.com</a> |
| Telephone                             | 0870 330 7757   |
| Fax                                   | 0800 970 7757   |
| Email                                 | <a href="mailto:service@weldability-sif.com">service@weldability-sif.com</a>  |
| Email address of the competent person | <a href="mailto:msds@weldability-sif.com">msds@weldability-sif.com</a>  |

##### 1.4. Emergency telephone number

|                            |   |
|----------------------------|---|
| Emergency telephone number | 0870 330 7757                             |
| Company                    | Weldability Sif<br>8.30 to 5.30 Mon - Fri |

#### SECTION 2: Hazards identification

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

##### 3.2. Mixtures

# Weldability SG2 Mild Steel MIG Welding Wire

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## 3.2. Mixtures

67/548/EEC / 1999/45/EC

| Chemical Name  | Index No.    | CAS No.   | EINECS No. | REACH<br>Registration<br>Number | Conc. (%w/w) | Classification                  |
|--|--------------|-----------|------------|---------------------------------|--------------|---------------------------------|
| Iron   |              | 7439-89-6 | 231-096-4  |                                 | 80 - 90%     |                                 |
| Manganese  |              | 7439-96-5 | 231-105-1  |                                 | 1 - 10%      |                                 |
| Silicon (Silicon total inhalable dust)                               |              | 7440-21-3 | 231-130-8  |                                 | 0.5 - 1%     |                                 |
| Copper (Copper fume)   |              | 7440-50-8 | 231-159-6  |                                 | 0 - 0.5%     |                                 |
| Nickel   | 028-002-00-7 | 7440-02-0 | 231-111-4  |                                 | 0 - 0.5%     | Carc. Cat. 3; R40 T; R48/23 R43 |
| Molybdenum   |              | 7439-98-7 | 231-107-2  |                                 | 0 - 0.5%     |                                 |
| Chromium (Chromium)  |              | 7440-47-3 | 231-157-5  |                                 | 0 - 0.5%     |                                 |
| Carbon (Graphite total inhalable dust)                               |              | 7440-44-0 | 231-153-3  |                                 | 0 - 0.5%     |                                 |
| Vanadium   |              | 7440-62-2 | 231-171-1  |                                 | 0 - 0.5%     |                                 |
| Phosphorus, red (Phosphorus, yellow)                                 | 015-002-00-7 | 7723-14-0 | 231-768-7  |                                 | 0 - 0.5%     | F; R11 R16 R52-53               |
| sulfur   | 016-094-00-1 | 7704-34-9 | 231-722-6  |                                 | 0 - 0.5%     | Xi; R38                         |
| aluminium powder (stabilised) (Aluminium metal total inhalable dust) | 013-002-00-1 | 7429-90-5 | 231-072-3  |                                 | 0 - 0.5%     | F; R11-15                       |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|              |   |
|--------------|---|
| Inhalation   | Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist. |
| Eye contact  | Avoid contact with eyes. Seek medical attention.  |
| Skin contact | Wash off immediately with plenty of soap and water.   |
| Ingestion    | If swallowed, seek medical advice immediately and show this container or label.                 |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|  |  |
|--|--|
|  | Extinguishing media. Carbon dioxide (CO2). Dry chemical. For large fires:.. Alcohol resistant foam. Water jet. |
|--|--|

### 5.3. Advice for firefighters

|  |   |
|--|---|
|  | Self-contained breathing apparatus. Wear suitable respiratory equipment when necessary. |
|--|---|

## SECTION 6: Accidental release measures

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

|  |   |
|--|---|
|  | Avoid formation of dust. Ensure adequate ventilation of the working area. |
|--|---|

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

|  |  |
|--|--|
|  | Sweep up. No specific clean up requirements. Refer to disposal considerations in Section 13. |
|--|--|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|  |                       |
|--|-----------------------|
|  | Wear suitable gloves. |
|--|-----------------------|

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

|  |  |
|--|--|
|  | Keep container tightly closed and dry. |
|--|--|

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## 8.1. Control parameters

### 8.1.1. Exposure Limit Values

|   |  |  |
|---|--|--|
| aluminium powder (stabilised)<br>(Aluminium metal respirable dust)      | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 4<br><br>WEL 15 min limit mg/m3: -     |
| aluminium powder (stabilised)<br>(Aluminium metal total inhalable dust) | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 10<br><br>WEL 15 min limit mg/m3: -    |
| Carbon (Graphite respirable)  | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -     | WEL 8-hr limit mg/m3: 4<br>WEL 15 min limit mg/m3: -         |
| Carbon (Graphite total inhalable dust)                                  | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 10<br><br>WEL 15 min limit mg/m3: -    |
| Chromium (Chromium)   | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -     | WEL 8-hr limit mg/m3: 0.5<br>WEL 15 min limit mg/m3: -       |
| Copper (Copper dusts and mists<br>(as Cu))                              | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 1<br><br>WEL 15 min limit mg/m3: 2     |
| Copper (Copper fume)  | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -     | WEL 8-hr limit mg/m3: 0.2<br>WEL 15 min limit mg/m3: -       |
| Phosphorus, red (Phosphorus,<br>yellow)                                 | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 0.1<br><br>WEL 15 min limit mg/m3: 0.3 |
| Silicon (Silicon respirable dust)                                       | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -     | WEL 8-hr limit mg/m3: 4<br>WEL 15 min limit mg/m3: -         |
| Silicon (Silicon total inhalable dust)                                  | WEL 8-hr limit ppm: -<br><br>WEL 15 min limit ppm: - | WEL 8-hr limit mg/m3: 10<br><br>WEL 15 min limit mg/m3: -    |

## 8.2. Exposure controls

|   |   |
|---|---|
|   |  |
| 8.2.1. Appropriate engineering controls | Keep away from foodstuffs, beverages and feed.                                      |
| 8.2.2. Individual protection measures   | Use appropriate personal protective equipment.                                      |
| Eye / face protection                   | Wear suitable protective clothing and eye/face protection.                          |
| Skin protection -<br>Handprotection     | Wear suitable gloves.   |
| Respiratory protection                  | In case of insufficient ventilation, wear suitable respiratory equipment.           |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|               |                |
|---------------|----------------|
| State         | Solid          |
| Colour        | Brown          |
| Odour         | Characteristic |
| Melting point | 1450 °C        |

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

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## 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Skin corrosion/irritation

May cause irritation to skin in susceptible persons.

#### Respiratory or skin sensitisation

May cause sensitisation by inhalation. Inhalation may cause nausea and vomiting. May cause drowsiness or dizziness.

## SECTION 12: Ecological information

### Further information

Avoid release to the environment. Refer to special instructions/Safety data sheets.

## SECTION 13: Disposal considerations

### General information

This material and its container must be disposed of in a safe way.

### Disposal methods

Dispose of in compliance with all. local and national regulations.

## SECTION 14: Transport information

### ADR/RID

The product is not classified as dangerous for carriage.

### IMDG

The product is not classified as dangerous for carriage.

### IATA

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

## SECTION 16: Other information

### Other information

#### Text of risk phrases in Section 3

R11 - Highly flammable.  
R15 - Contact with water liberates extremely flammable gases.  
R16 - Explosive when mixed with oxidising substances.  
R38 - Irritating to skin.  
R40 - Limited evidence of a carcinogenic effect.  
R43 - May cause sensitisation by skin contact.  
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### General information

The information supplied in this safety data sheet is designed only as guidance for safe use, storage and handling of the product. This information relates only to the specific goods listed and may not be valid for such material used in combination with any other product(s). This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy.