



## Section 1. Product and Company Identification.

### 1.1 Model Number; & 1.2 Description;

WEHF1025 v1 Welding Electrodes Hardfacing  $\varnothing$ 2.5 x 300mm 1kg Pack  
WEHF1032 v1 Welding Electrodes Hardfacing  $\varnothing$ 3.2 x 350mm 1kg Pack  
WEHF1040 v1 Welding Electrodes Hardfacing  $\varnothing$ 4 x 350mm 1kg Pack  
WEHF5025 v1 Welding Electrodes Hardfacing  $\varnothing$ 2.5 x 300mm 5kg Pack  
WEHF5032 v1 Welding Electrodes Hardfacing  $\varnothing$ 3.2 x 350mm 5kg Pack  
WEHF5040 v1 Welding Electrodes Hardfacing  $\varnothing$ 4 x 350mm 5kg Pack

### 1.3 Manufacturer;

Sealey Group.  
Kempson Way,  
Bury St. Edmunds,  
Suffolk.  
IP32 7AR

1.4 Emergency telephone number; 44 (0) 1284 757 500

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## Section 2. Hazards Identification.

### Risk phrases;

No significant hazard



### Section 3. Substances.

3.1 Chemical Name (substance)	3.1 CAS No.	3.2 Percentage of Content (mixture)	See Section 16
Iron	7439-89-6	40 – 50%	
Chromium (Chromium)	7440-47-3	1 - 10%	
Silicon (Silicon total inhalable dust)	7440-21-3	1 - 10%	
Manganese	7439-96-5	1 - 10%	
Molybdenum	7439-98-7	1 - 10%	
Carbon (Graphite total inhalable dust)	7440-44-0	0.5 - 1%	
Nickel	7440-02-0	0 - 0.5%	Carc. Cat. 3; R40 T; R48/23 R43
Zirconium powder (pyrophoric)	7440-67-7	0 - 0.5%	F; R15-17
aluminium powder (stabilised) (Aluminium metal total inhalable dust)	7429-90-5	0 - 0.5%	F; R11-15
Vanadium	7440-62-2	0 - 0.5%	
Titanium Oxide	12137-20-1	0 - 0.5%	
sulphur	7704-34-9	0 - 0.5%	Xi; R38
Phosphorus, red (Phosphorus, yellow)	7723-14-0	0 - 0.5%	F; R11 R16 R52-53



## Section 4. 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 the container or label.

## Section 5. Fire Fighting Measures.

### 5.1. Extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry chemical.

For large fires: Alcohol resistant foam. Water jet.

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

No data available.

### 5.3. Advice for fire-fighters

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.

Refer to Exposure Controls in Section 8

### 6.2. Environmental precautions

No data available.

### 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. See Section 8 Exposure Controls.

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

Keep container tightly closed and dry.

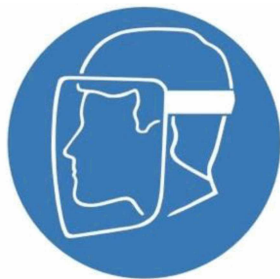


## Section 8. Exposure Controls/Personal Protection.

### 8.1. Control parameters

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

### 8.2. Exposure controls



Keep away from foodstuffs, beverages and feed.

Use appropriate personal protective equipment.

Wear suitable protective clothing and eye/face protection.

Wear suitable gloves.

In case of insufficient ventilation, wear suitable respiratory equipment.



## Section 9. Physical and Chemical Properties.

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

(a) Appearance:	solid, brown.
(b) Odour:	characteristic
(c) Odour threshold;	no data available
(d) pH:	no data available
(e) Melting point/freezing point;	1450°C
(f) Initial boiling point and boiling range;	no data available
(g) Flash point;	no data available
(h) Evaporation rate;	no data available
(i) Flammability (solid, gas);	no data available
(j) Upper/lower flammability or explosive limits;	no data available
(k) Vapour pressure;	no data available
(l) Vapour density;	no data available
(m) Relative density;	no data available
(n) Solubility(ies);	no data available
(o) Partition coefficient: n-octanol/water;	no data available
(p) Auto-ignition temperature;	no data available
(q) Decomposition temperature;	no data available
(r) Viscosity;	no data available
(s) Explosive properties;	no data available
(t) Oxidising properties.	no data available



## Section 10. Stability and Reactivity.

10.1. Reactivity	no data available
10.2. Chemical stability	stable under normal conditions.
10.3. Possibility of hazardous reactions	no data available
10.4. Conditions to avoid	no data available
10.5. Incompatible materials	no data available
10.6. Hazardous decomposition products	none

## Section 11. Toxicological Information.

May cause irritation to skin in susceptible persons.

May cause sensitisation by inhalation. Inhalation may cause nausea and vomiting.

May cause drowsiness or dizziness.

## Section 12. Ecological Information.

Do not release into the environment.

## Section 13. Disposal Considerations.

Disposal of material and container must be in accordance with local authority regulation requirements.

## Section 14. Transport Information.

The product is not classified as dangerous for carriage.

## Section 15. Regulatory Information.

No data available

## Section 16. Additional Information.

### Text of Risk Phrases in Section 3

R11 - Highly flammable.

R15 - Contact with water liberates extremely flammable gases.

R16 - Explosive when mixed with oxidizing substances.

R17 - Spontaneously flammable in air.

R23 - Toxic by inhalation.

R38 - Irritating to skin.

R40 - Limited evidence of a carcinogenic effect.

R43 - May cause sensitisation by skin contact.

R48 - Danger of serious damage to health by prolonged exposure.

R52 - Harmful to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

The above information is believed to be accurate and represents the best information currently available.

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The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.