



Section 1. Product and Company Identification.

1.1 Model Number; WESS5040 v1
1.2 Description; Stainless Steel Welding Electrodes 4 x 350mm - 5kg Pack

1.3 Manufacturer;
Jack Sealey Ltd. Jack Sealey (EU) Ltd
t/a Sealey Group. t/a Sealey Group.
Kempson Way, Farney Street,
Bury St. Edmunds, Carrickmacross,
Suffolk, Co. Monaghan,
IP32 7AR A81 PK68
UK Ireland

technicalcompliance@sealey.co.uk

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

Date of source compilation; 20/01/2026

Section 2. Hazards Identification.

2.1 Classification of the substance or mixture.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure

2.2 Label elements.
Hazard pictogram(s)



Signal Word. Warning

Hazard statements;
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure



Section 2. Hazards Identification continued.

Precautionary statements;

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash skin and hair thoroughly after handling.
- P280 Wear protective gloves/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/attention if you feel unwell.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local authority regulations.

2.3 Other hazards.

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Section 3. Substances.

3.1 Chemical Name (substance)	3.1 CAS No.	3.2 Concentration Weight	Classification	
			Hazard Class & Category Code	Hazard Statements ¹
Iron	7439-89-6	65 – 75 %	-	-
Calcium carbonate	1317-65-3	5 – 15 %	-	-
Calcium fluoride	7789-75-5	1 - 11 %	Skin irrit. 2 Eye Irrit. 2A STOT SE 3	H315 H319 H335
Feldspar	68476-25-5	1 - 11 %	-	-
Manganese	7439-96-5	1 - 11 %	STOT RE 2	H373
Potassium silicate	1312-76- 1	1 - 11 %	Skin irrit. 2 Eye irrit. 2	H315 H319
Silicon	7440-21-3	1 - 11 %	Flam Sol. 2	H228
Titanium dioxide	13463-67-7	1 - 11 %	Carc. 2	H351 (Inhalation)

¹For full text of Statements, see Section 16.



Section 4. First Aid Measures.

4.1 Description of first aid measures

Inhalation

Remove to fresh air.

Skin Contact

Rinse skin with water.

If irritation persists, get medical attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Get medical attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: get medical attention.

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

No data available.

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

No data available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media

Use alcohol resistant foam, carbon dioxide, dry chemical or water spray,

DO NOT use water on molten metal.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.



Section 6. Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures
Prevent exposure to welding fumes and associated discharge.

6.2. Environmental precautions
Ensure adequate ventilation when in use.

6.3. Methods and material for containment and cleaning up
Use PPE during collection.

6.4. Reference to other sections
See Section 7 for information on Safe Handling
See Section 8 for information of Personal Protective Equipment.
See Section 13 for information on disposal.

Section 7. Handling and Storage.

7.1. Precautions for safe handling
Handle with care to avoid cut wounds.

7.2. Conditions for safe storage, including any incompatibilities
Store in a dry location.
Keep separate from acids and strong bases.

7.3. Specific end use(s)
Intended for use as Welding Electrodes, Model Number identified in 1.1 with Description stated in 1.2.



Section 8. Exposure Controls/Personal Protection.

8.1. Control parameters

Workplace exposure limits.

Substance	CAS number	Workplace exposure limit.			
		Long term.		Short term.	
		ppm	mg.m ³	ppm	mg.m ³
Calcium carbonate inhalable dust respirable	1317-65-3	-	10	-	-
		-	4	-	-
Silicon inhalable dust respirable	7440-21-3	-	10	-	-
		-	4	-	-
Titanium dioxide inhalable dust respirable	13463-67-7		10		
			4		

8.2. Exposure controls

Appropriate Engineering Controls

Ensure adequate ventilation.

Eye/Face Protection

EN 379 Personal eye-protection. Automatic welding filters.

Skin Protection

EN 12477 Protective gloves for welders.

Respiratory Protection

Air purifying dust respirator.



Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties

The following information is not a technical specification or sales specification.

(a) Appearance:	Solid. Rod.
(b) Odour:	Odourless, as supplied.
(c) Odour threshold;	No data available.
(d) pH:	No data available.
(e) Melting point/freezing point;	No data available.
(f) Initial boiling point and boiling range;	1300 °C and 1260 / 1649 °C
(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;	Not relevant.
(l) Vapour density;	Not relevant.
(m) Relative density;	Not relevant.
(n) Solubility(ies);	Insoluble in water.
(o) Partition coefficient: n-octanol/water;	Not relevant.
(p) Auto-ignition temperature;	No data available.
(q) Decomposition temperature;	No data available.
(r) Viscosity;	Not relevant.
(s) Explosive properties;	No data available.
(t) Oxidising properties.	No data available.

9.2 Other information

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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	Contact with acids and strong bases causes generation of gas.
10.4. Conditions to avoid	Do not allow contact with soil. Prevent from entering drains and water courses.
10.5. Incompatible materials	Reacts to acids.
10.6. Hazardous decomposition products	Welding process will cause decomposition of substances listed in Section 3.

Section 11. Toxicological Information.

11.1. Information on toxicological effects

Inhalation of welding fumes may produce dizziness, nausea and dryness or irritation of eyes, nose and throat.

Over exposure to welding fumes is dangerous to health.

Over exposure to manganese and manganese compounds can cause irreversible damage to the central nervous system.

Over exposure to titanium dioxide can cause cancer.



Section 12. Ecological Information.

12.1. Toxicity	Welding rods are toxic to aquatic organisms.
12.2. Persistence and degradability	Welding rods cannot degrade any further in the environment.
12.3. Bioaccumulative potential	Welding rods contain heavy metals which bioaccumulate in the food chain. Iron. Manganese.
12.4. Mobility in soil	Do not allow welding rods to enter soil.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	-

Section 13. Disposal Considerations.

13.1. Waste treatment methods

Dispose of in accordance with local authority regulation.
Do not allow contact with soil.
Prevent from entering drains and water courses.

Section 14. Transport Information.

Not applicable to Model Number identified in 1.1 with Description stated in 1.2.



Section 15. Regulatory Information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available.

15.2. Chemical safety assessment
No data available.

Section 16. Additional Information.

Full text of Statements used in Section 3;

H228 Flammable solid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure

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

No warranty is expressed or implied by the above information.

We assume no liability resulting from use of the above information.

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

Issue level	Date	Revisions
1	18/08/2014	First issue.
2	23/04/2026	Section 3

End of Safety Data Sheet.