

SAFETY DATA SHEET

1. Identification of the Substance / Preparation and of the Company Undertaking

Product Name: SpECseal IG Hardener

Product Use: Sealant

Company: Speciality Engineering Chemicals

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2. Composition / Information on Ingredients

Composition: Manganese dioxide cure paste with diluents and inorganic fillers.

Hazardous Ingredient (s)	Symbol	R. Phrases	CAS No.	%
Manganese dioxide	Xn	R20/22	1313-13-9	20 - 40

3. Hazards Identification

Environmentally hazardous
Irritating to eyes and skin
Toxic to aquatic organism
May cause sensitisation by skin contact



4. First Aid Measures

Eye: Irrigate immediately with copious quantities of water for several minutes. If irritation persist, obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser.

Inhalation: Remove from exposure.

Ingestion: Wash out mouth with water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

5. Fire Fighting Measures

Suitable Extinguishing Media: Carbon Dioxide, powder, foam or water fog-Do not use water jets..

Special Exposure Hazards: Toxic fumes.

Special Protective Equipment: Self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water course.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means.
Dispose of as waste.

7. Handling and Storage

Handling: Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Wash hands thoroughly after handling this product.

Storage: Keep containers tightly closed in a cool and ventilated place.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits: MAK (DFG, 1997)

Engineering Control Measures: Use only in well ventilated areas.

Personal Protective Equipment: Avoid skin and eye contact. Safety glasses. Impervious gloves (eg. Nitrile or neoprene)

9. Physical and Chemical Properties

State: Liquid

Colour: Black

Odour: Organic

Flash Point (closed, °C): >150 °C

AutoFlammability (°C): None

Specific gravity: 1.70 ± 0.05

Water Solubility: Insoluble

10. Stability and Reactivity

Stability: Stable under recommended conditions.

Conditions to avoid: Not known.

Materials to avoid: Strong acids, alkalis and oxidising agents.

Hazardous Decomposition products: Carbon monoxide. Irritant fumes.

11. Toxicological Information

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Oral LD50, rat >2gm/kg.

Health Effects

On Eyes: Causes transient irritation.

On Skin: Mildly irritating.

By Inhalation: Irritating to respiratory system.

By Ingestion: Harmful if swallowed. May cause nausea, vomiting and diarrhea.

Chronic: Repeated and prolonged skin contact may lead to skin disorders.

12. Ecological Information

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Insoluble in water.
Persistence and Degradability:	Expected not to be not readily biodegradable.
Bioaccumulative Potential:	Not known.
Ecotoxicity:	EC 50>1000mg/litre.

13. Disposal Considerations

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorised waste contractor to a licensed site.
Used/Contaminated Product:	As for unused product.
Packaging:	Must be disposed through an authorised waste contractor.

14. Transport Information

Proper shipping name:	Environmentally hazardous substance, Liquid, N.O.S.
UN Number:	3082
IMO Class :	9
IATA/ICAO Class:	9
ADR Class:	9
Subsidiary risk:	-
Packing Group:	III

Label(s):



Additional Information

ADR-HIN:	90		
IMDG-EMS:	F-A, S-F	Marine Pollutant:	Yes
IMO:	T1		

15. Regulatory Information

EU Regulations:	The product is labeled as follows, in accordance with local regulations.		
Hazard Symbol(s):	Xi, N		
Contains:	Manganese dioxide		
Risk Phrases:	R20 - Harmful by inhalation R36 - irritating to eyes R33 - May cause long term adverse effects in the aquatic environment		

Safety Phrases: S28 - After contact with skin, wash immediately with plenty of water
 S39 - Wear eye/face protection
 S61 - Avoid release to environment. Refer to special instructions/MSDS

16. Other Information

Issue no.: 1
Issue date: 10-Jan-20
Issued by: SpEC Technical Department

No liability accepted for any injury, loss, damage or cost arising directly or indirectly from the use of any information contained within this MSDS since the customers treatment of the product is necessarily out of our control.

The data given above is based upon current knowledge and experience. This safety sheet is intended to describe our products in terms of their safety requirements. It does not guarantee the properties of the products described.