
SAFETY DATA SHEET

A. Identification of the Substance / Preparation of the Company Undertaking

Product Name: SpEC Surface Hardener
Company: Speciality Engineering Chemicals
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B. Composition / Information on Ingredients

Hazardous Ingredients	Risk Phrases	Other Information	%
Sodium Silicate	Xi	CAS No. 1344-09-8	-

C. Hazards Identification

Very soluble in water
Causes burns
Prolonged and repeated skin contact may cause irreversible effects.
Inhalation may cause irritation.
Irritating to eyes and respiratory system.

D. First Aid Measures

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention if irritation persists.

Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon possible. Obtain medical attention if irritation persists. Removed contaminated clothing immediately.

Inhalation: Remove from exposure and summon physician.

Ingestion: Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

E. Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog – do not use water jets.

Special Exposure Hazards: Non-flammable, heating may cause the containers to explode. Fire generates toxic and corrosive gases.

Special Protective Equipment: Self-contained breathing apparatus.

Other Information: Prevent release of fire control water to surface or ground water.

F. Accidental Release Measures

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation when cleaning operations are in progress.
Environmental Precautions:	Prevent entry onto drains, sewers and water courses. Eye wash facilities should be available.
Decontamination Procedures:	Soak up with inert absorbent or contain and remove by best available means. Gather into container. Dispose of as waste.

G. Handling and Storage

Handling:	Avoid skin and eye contact. Use well ventilated areas.
Storage:	Store in a cool dry area. Keep in the original container.

H. Exposure Controls / Personal Protection

Occupational Exposure: Limits	None assigned.
Engineering Control: Measures	Ventilate confined areas when it use. Wear protective clothing if contact occur.
Personal Protective: Equipment	Avoid skin and eye contact. Wear impervious gloves (e.g. PVC), in case of repeated or prolonged contact. Goggles.

I. Physical and Chemical Properties

Physical State:	Liquid
Colour:	Water white
Odour:	Odourless
Solubility:	Very soluble in water
Lower Explosion Limit:	N/A
pH Solution:	10 – 13
Molecular Weight:	N/A
Auto-Ignition Temp.:	N/A
Density:	1.57
Flash Point:	N/A
Solubility in Water:	100%
Rel. density sat.air (air=1):	N/E
Viscosity:	N/E
RE. Evap. Velocity:	N/E

J. Stability and Reactivity

Stability:	Stable. Avoid excessive heat for prolonged periods of time.
Conditions to Avoid:	Protect from heat and sources of ignition.
Materials to Avoid:	Oxidizing agents, strong acids, alkalis, halogens.
Hazardous Decomposition: Products	Thermal Decomposition: - oxides of carbon.

K. Toxicological Information

On Eyes:	Irritation
On Skin:	Causes burns
By Inhalation:	Severe irritation in nose and throat.
By ingestion:	May cause burns to the upper digestive and respiratory tracts.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

L. Ecological Information

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Dissolves in water.
Persistence and Degradability:	Not readily biodegradable.
Bioaccumulative Potential:	Not expected to be bioaccumulative.
Ecotoxicity:	Expected to be ecotoxic to fish/daphnia/algae

M. Disposal Considerations

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorized waste contractor to a licensed site. Do not empty into drains, sewers or water courses.
Used/Contaminated Product:	As of Unused product.
Packaging:	May be steam cleaned and recycled.

N. Transport Information

This product is NOT classified as dangerous for transport.

O. Regulatory Information

Hazard Label Data:

Named Ingredients:	Liquid, soluble in water
Symbol(s):	Xi
Risk Phrases:	Irritating to respiratory system.
Safety Phrases:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated areas.
EC Directives:	Dangerous Substance Directives, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC Safety Data Sheets Directive, 91/155/EEC
Statutory Instruments:	Chemicals (Hazards Information and Packaging) Regs. 1993 (SI 1746) Control of Substances Hazardous to Health Regs. 1988 (SI 1657) Health and safety Work, etc. Act 1974. Environmental Protection Act 1990. Highly Flammable Liquids and Liquefied Petroleum Gases Regs. 1972 (SI 917) The storage of highly flammable liquids (CS 2)
Codes of Practice:	Waste Management. The Duty of Care.
Guidance Notes:	Occupational Skin diseases: Health and Safety precautions (EH26) Occupational Exposure Limits EH40.

P. Other Information

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.