

Sensor & Heater Cement SCBshc Product Data Sheet



This cement is air curing and is ideal for mounting (potting) sensors and heaters. It's also useful to protect the sensor and heater in your installation. It's easy to remove. Temp range from 1.5K to 1500°C. It has really good electrical insulating properties and is odourless.

Identification of the Substance

Product name	Sensor and Heater Cement
CAS number	1344-09-8
EINECS number	215-687-4
Use of substance / Preparation	High and low temperature resistant inorganic adhesive

Hazards Identification

Main hazards	This product is not classified as dangerous. All the alkali silicates, even those that are not classified as Dangerous Substances, are alkaline chemicals. Therefore contact with eyes, skin and clothes should be avoided and the usual procedures for handling all chemicals should be followed.
Other hazards	Alkaline Solution. Irritating to skin. Risk of serious damage to eyes.

Composition / Information on Ingredients

Contains	Alkaline Silicate Glass Solution.
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First aid measures (Action)

Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Eye contact	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion	Do not induce vomiting. Wash out mouth with water. Drink 1 or 2 glasses of water or milk. Seek Medical Attention.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Seek Medical Attention.

Product Storage

Extinguishing media	Not Applicable. Aqueous Solution. Non Combustible. Suitable extinguishing media for the surrounding fire should be used.
Protection of fire-fighters	Wear protective clothing to prevent contact with skin and eyes.

Accidental release measures

Personal precautions	Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Wear Appropriate Protective Clothing. Wear Suitable Eye Protection. Material can create slippery conditions underfoot.
Environmental precautions	Do not discharge into drains or rivers. If material enters drains, dilute as much as possible with water and notify the authorities.
Clean-up procedures	Absorb into dry earth or sand. Transfer to a suitable container. Refer to section 13 of SDS for suitable method of disposal.

Handling and Storage

Handling requirements	Avoid contact with eyes and skin. Eye wash facilities should be readily available. Wear suitable protective equipment. See Section 8 - Personal Protection. General good safety practices should be followed in the handling and use of this product. NO SMOKING OR EATING OR DRINKING should be allowed in areas of storage or use.
Storage conditions	Store in cool, well ventilated area. Storage temperature should be below 50 C. Prevent from freezing. Avoid incompatible materials and conditions - see section 10 of SDS.
Suitable packaging	Must only be kept in original packaging.

Exposure Controls / Personal Protection

Engineering measures	Local exhaust ventilation if solution is sprayed. Ensure good work practices. Wash splashes immediately. DO NOT eat, drink or smoke in the workplace
Respiratory protection	Respiratory protection is required if solution is sprayed. Consult British Standards BS2091 and BS4275 and HSE publication HS(G)53 for further advice on respiratory protective equipment.
Hand protection	Gloves (alkali-resistant)
Eye protection	Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection	PVC apron

Physical and chemical Properties

State	Paste
Colour	Off-white
Odour	Odourless
Evaporation rate	Slow
Oxidising	Non-oxidising (by EC criteria)
Solubility in water	Binder Soluble in Water/Filler Insoluble
Viscosity	Viscous
Relative density	1.5-2.5
pH	11.0

Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	This product may react violently with acids. This product will react with aluminium, zinc, tin & their alloys, evolving hydrogen.

Toxicological Information

Acute toxicity	Sensor and Heater Cement ORL RAT LD50 1600-3200 mg/kg
Routes of exposure	Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

Ecological Information

Mobility	Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.
Persistence and degradability	Soluble Silicates upon dilution rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.
Bioaccumulative potential	No data available.
Other adverse effects	No data available.

Disposal Considerations

Disposal operations	Dispose of empty packaging or surplus cement to a place authorised to accept builders' waste (non-hazardous materials landfill).
Disposal of packaging	Dispose of empty packaging or surplus cement to a place authorised to accept builders' waste (non-hazardous materials landfill).
NB	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Transport Information ADR / RID

Shipping name	UN Class: Not classified as 'Dangerous Goods' under the United Nations Transport Recommendations.
IMDG / IMO IATA / ICAO	

Regulatory Information

Hazard symbols	Alkaline Paste
Risk phrases	This product is not classified as dangerous. All the alkali silicates, even those that are not classified as Dangerous Substances, are alkaline chemicals. Therefore contact with eyes, skin and clothes should be avoided and the usual procedures for handling all chemicals should be followed.
Safety phrases	S1/2: Keep locked up and out of the reach of children. S3/7: Keep container tightly closed in a cool place. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of warm soapy water. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S60: This material and its container must be disposed of as hazardous waste.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

Regulatory Information

Other information	All the alkali silicates, even those that are not classified as Dangerous Substances, are alkaline chemicals. Therefore contact with eyes, skin and clothes should be avoided and the usual procedures for handling all chemicals should be followed. Shelf life - 12 months This product is ROHS compliant.
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.