

BATH POTTERS SUPPLIES

MATERIAL SAFETY DATA SHEET

(cosh44)

1. Identification of the preparation/Supplier reference

Trade Name **Sodium Dispex**
Chemical name Sodium silicate
Synonyms Waterglass
Supplier Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate,
Radstock, Nr. Bath. BA3 4XE
Emergency numbers Tel: 01761 411077
 Fax: 01761 414115
 Internet: coshh@bathpotters.demon.co.uk

2. Composition

Component	CAS	EINECS	% of composition
Sodium silicate	1344-09-8	229-912-9	refer to summary

3. Health Hazard Identification

Inhalation Excessive exposure may cause symptoms of chronic lung disease
Ingestion The product is of low solubility in body fluids and it is likely to be of low acute toxicity
Eyes Causes physical irritation and inflammation
Skin Causes physical irritation and inflammation.

4. First Aid Measures

Inhalation Remove patient to fresh air, loosen tight clothing and seek medical attention
Ingestion Wash out mouth with water and give sips of water or milk. Do not induce vomiting, seek medical attention.
Eyes Speed is essential. Irrigate eyes for not less than 20 minutes with clean water immediately otherwise permanent damage will result. See medical attention
Skin Wash affected areas with copious quantities of water until no soapy feelings remain. Obtain medical attention if irritation persists

5. Fire Fighting Measures

Extinguishing Media Those suitable for surrounding fire conditions
Special Exposure hazard The product is non flammable. Contact with certain metals (aluminium, zinc and tin) liberates highly flammable hydrogen gas which may form an explosive mixture with air.
Personal protective equipment May generate toxic fumes in a fire - self contained breathing apparatus and full body protective clothing.

6. Accidental Release Measures

Leaks & Spills Contain spillage. Scoop into a suitable container. Wipe up any excess. If any enters drain dilute as much as possible.
Personal protective equipment Wear goggles and respiratory protective equipment. Eyes baths should be available.

7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material. Wear suitable goggles, gloves and clothing when handling.
Storage	Store in dry area. Do not store solutions above 50°C for prolonged periods. Protect solutions from freezing.

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	Refer to summary, odourless
Flash point (°C)	N/a
Flammability	N/a
Explosive properties	N/a
Oxidising properties	N/a
Specific gravity	1-3
pH value	7>11
Melting point (°C)	980°C

10. Stability & Reactivity

Chemical stability	The material is stable under normal conditions
Conditions/materials to avoid	Avoid exposure to atmospheric draughts and low temperatures. Avoid contact with strong acids. Acid will cause the liquid to gel. Absorbs carbon dioxide from the air Ignites and maintains combustion in flourine Contact with wood will cause discoloration Solutions will react with new surfaces of aluminium, zinc, tin and their alloy will liberate hazardous decomposition fumes
Hazardous decomposition products	Contact with aluminium, brass, tin, zinc will produce highly flammable and explosive H ₂ gas
Hazardous polymerization products	None

11. Toxicology Information

Acute toxicology	Liquid and mist cause severe irritation and corrosion to skin, eyes, respiratory and digestive tracts. There is little danger of cold solution causing acute damage to the skin. Hot solutions may cause chemical burns
Health effects	Prolonged contact may cause dryness and reddening of the skin. Corrosive to eyes and may case corneal damage. Inhalation may cause pulmonary oedema. Ingestion causes system dehydration and nausea. Ingestion of large amounts may result in sever abdominal pains, vomiting, diarrhoea, convulsions and collapse

12. Ecological information

Ecotoxicity Increase in pH 10 or more is lethal to aquatic life
Persistence No evidence of bio-accumulation or tainting of seafood

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
	ADR	Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory information

EC Supply Labelling	Harmful
R-Phrases	R38 irritating to the skin
	R41 risk of serious damage to eyes
S-Phrases	S2 keep out of reach of children
	S26 in case of contact with eyes rinse immediately with plenty of water and seek medical advice
	S37 wear suitable gloves
	S39 wear eye and face protection
UK Occupational exposures limits*	Mg/m ³ 8 hr TWA % in product

* refer to HSE Guidance note EH40

In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk

16. Other information

References

COSHH ACOP	HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994
CHIP 96	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996
CHIP SDS ACOPS	HSC Approved Code of Practice for Safety data Sheets in accordance with regulation 6 of the CHIP regulations
HSE EH40	HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSH regulations

Footnote

LIABILITY

Such information is the best of Bath Potters Supplies knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by Bath Potters Supplies are used in conjunction with, or instead of Bath Potters Supplies materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Bath Potters Supplies materials in conjunctions with other materials.

17. National Legislation

UK Legislation

SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993

Environmental Protection (Duty of Care) regulations 1992 SI 2839

Carriage of Dangerous goods by Road and Rail Regulations 1994

Control of pollution Act 1974

Environmental Protection Act 1990

Highly Flammable Liquids and Petroleum Spirit Regulations 1972

EH40 Occupational Exposure Limits

SI1988/1657 The Control of Substances Hazardous to Health Regulations

Note - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations

Important notes

Design CHIP-002

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request.

10 July 2002