

Safety Data Sheet

Hardness Plus - Calcium Chloride

Revision

DATE SDS REVISED 11th May 2005
Supercedes SDS dated 2nd June 2000

SDS Ref: SOL1300
Revision Number: 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Substance or preparation trade name: Hardness Plus - Calcium chloride

Other names: Calcium Chloride

Intended or recommended use of chemical: To increase calcium hardness levels in pool water.

Company/undertaking name, address and normal telephone no.:

Biolab U.K. Limited
Unit 4 Andoversford Industrial Estate
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GL54 4LB

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**FOR MEDICAL EMERGENCIES, FIRES, SPILLAGES OR CHEMICAL
HAZARDS ONLY:
TEL: 01865 407333**

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	Wt %	EINECS NO.	CAS NO.	R phrases	Symbol	WEL
Calcium chloride	100	017-013-00-2	10043-52-4	36	Xi	WEL

3. HAZARDS IDENTIFICATION

Irritant: Causes eye, skin and respiratory irritation. Avoid contact with eyes, skin or clothing.

4. FIRST AID MEASURES

Inhalation	Remove person to fresh air and seek medical attention. If breathing difficulties, allow a trained person to administer oxygen.
Skin contact	Wash with cold water for a minimum of 15 minutes. If skin irritation persists, seek medical attention.
Eye contact	Flush eyes with cold flowing water for at least 20 minutes. Seek medical attention immediately.
Ingestion	Drink large quantities of water. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog
Special exposure hazards in fire:	Emits toxic fumes under fire conditions.
Required special protective equipment for fire fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use appropriate personal protective equipment as detailed in section 8.
Methods for cleaning:	Contain the spillage as soon as possible. (Product absorbs water). Sweep up the spill and place in clean, dry plastic containers including any contaminated soil. Dispose of product in accordance with relevant local and national waste disposal legislation.

7. HANDLING AND STORAGE

Handling:	Mix only with water. Always add small quantities of product to water. DO NOT add water to product. Ensure all dispensing devices are clean and free from other chemicals.
Storage:	Keep this product in original, sealed container when not in use. Store in a cool, dry, well-ventilated area. Keep this product and all other chemicals out of reach of children.

8. EXPOSURE CONTROLS

Workplace Exposure control limits and source:

Exposure Limits:	8 hr TWA		Authority
	ppm	mg/m ³	
Inhalable dust	-	10	EH40
Respirable dust	-	4	

General: General room ventilation plus local exhaust should be used to maintain dust exposure below TLV. Remove and wash contaminated clothing before reuse.

Respiratory protection	Use respiratory protection for general dust inhalation protection.
Hand protection (type of gloves, etc)	Wear chemical resistant gloves when handling this product.
Skin protection	Avoid contact with skin.
Eye protection	Wear goggles or safety glasses with side shields when handling this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Flakes or prilled material
Odour:	None
pH:	(30% Soln) Approx 9.0
Appearance:	White to off-white.
Solubility in Water:	52g/100g water
Specific Gravity:	0.85 gm/cm ³

10. STABILITY AND REACTIVITY

Conditions to avoid:	High temperature. Poor ventilation. Contamination. Moisture/high humidity.
Materials to avoid:	Other swimming pool/spa chemicals in their concentrated forms. Oxidizing compounds.
Hazardous decomposition products:	Hydrogen chloride gas, calcium oxide.

11. TOXICOLOGICAL INFORMATION

Route of entry:

Inhalation: Irritation. Chronic effect – ulceration of nasal mucosa.

Ingestion: Slight irritation of mouth and throat. Systemic effects

Skin & eyes: Severe irritation and redness. Irritation and redness. Prolonged contact may cause dermatitis.

Toxicity: **LD50 (Oral RAT):** 1300mg/kg
This product is not listed as a carcinogen

12. ECOLOGICAL INFORMATION

This product may be toxic to fish and aquatic organisms.
Keep product from entering waterways and watersheds.

13. DISPOSAL CONSIDERATIONS

Disposal Method: **DO NOT** put product, spilled product or filled or partially filled containers into the waste. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to municipal, provincial and federal regulations.

Empty Containers: **DO NOT** re-use container. Rinse thoroughly before discarding.

14. TRANSPORT INFORMATION

Classification: Not regulated

15. REGULATORY INFORMATION

Product name: Calcium chloride

Symbol: Xi

Indication(s) of danger: Irritant

Risk phrases: R36 Irritating to eyes

Safety phrases: S1/2 Keep locked up and out of the reach of children.
S22 Do not breathe dust.
S24 Avoid contact with skin.

EC No.: 233-140-8

Applicable EU provisions and associated UK legislation: The Chemical (Hazards Information & Packaging) Regulations 2002.

NOTE: THIS DATA SHEETS DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION

16. OTHER INFORMATION

Risk phrases: R36 Irritating to eyes

Recommended uses and restrictions: No further information

Further information sources:

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

Details of changes to last versions: Section 2 revisited; section 4 revisited; section 8 revisited; section 11 revisited; section 15 revisited; section 16 revisited.
