

Safety Data Sheet



Product name:

Calcium Chloride

Safety Data Ref: I

Initial issue date: 30 March 2015

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Version number: 9

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY		
1.1	Product identifier	Calcium Chloride
1.2	Relevant use(s)/misuse(s)	Adsorbent
1.3	SDS supplier	Molecular Products Ltd, Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK
1.4	Emergency contact (global)	+44 (0) 1279 445111 (office hours) / +44 (0)1865 407333 (out of hours, English speaking) trevor@rising-hsande.co.uk (competent person email)
	Emergency contact (other)	China +86 512 8090 3042, China (NRCC): +86 532 8388 9090, Mexico: +52 555 004 8763, Chile: +56 225 829 336, Brazil: +55 11 3197 5891

2 HAZARDS IDENTIFICATION			
2.1 Classification of the substance or mixture			
2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)			
	Eye Irrit. 2	H319	
2.1.2 See section 16 for full text of hazard statements			
2.2 Labelling elements			
2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)			
Pictogram		Signal word	WARNING
Hazard statements			
H319	Causes serious eye irritation		
Precautionary statements			
P281	Use personal protective equipment as required		
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing		
P337+313	If eye irritation persists: Get medical advice/attention		
2.3 Other hazards			
WELs have been assigned			

3 COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical characterisation	Calcium chloride (anhydrous, mono- and di-hydrate solids and solutions)			
Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
Calcium chloride	10043-52-4	233-140-8	Eye Irrit. 2 H319	26.5-98%

4 FIRST AID MEASURES	
4.1 Description of measures	
Inhalation	Remove casualty to fresh air. If necessary, seek medical advice
Skin contact	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice
Eye contact	Wash out eye thoroughly with plenty of water until irritation subsides; if necessary consult an eye specialist/ophthalmologist
Ingestion	If product is swallowed, drink plenty of water – do not induce vomiting
4.2 Most important effects/symptoms	None known
4.3 Immediate/special treatment	Treat Symptomatically

5 FIRE FIGHTING MEASURES	
5.1 Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder)
5.2 Special hazards	Non combustible
5.3 Advice for fire fighters	Self-contained breathing apparatus may be required

6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions	Adhere to personal protective measures. Avoid inhalation of dust
6.2	Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once
6.3	Methods and materials for cleaning up	In the event of spillage, take up into tightly closed containers. Adhere to personal protective measures. Label container and dispose of as prescribed
6.4	Reference to other sections	See section 8 for personal protective equipment

7 HANDLING AND STORAGE		
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Avoid dust formation
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry
7.3	Specific end use(s)	Adsorbent

8 EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1 Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011) for solid material.					
	LTEL (8 hours)	ppm	10	mg/m ³	Inhalable dust
	LTEL (8 hours)	ppm	4	mg/m ³	Respirable dust
8.2 Exposure controls					
	Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation)			
	Personal protection	Observe normal standards for handling chemicals Wash hands before breaks and after work. Avoid raising dust Wear personal protective equipment appropriate to the task (see below)			
	Eye protection	Chemical goggles or safety glasses with side shields			
	Skin protection	Rubber gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)			
	Respiratory protection	NIOSH Approved dust respirator if conditions are dusty			
	Other protection	Protective overalls			

9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1 Basic physical and chemical properties				
	Physical form	Solid or liquid	Colour	White or colourless
	Odour	Odourless	pH	5-10
	Boiling pt/range	Not applicable	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	2.0-2.5 g/ml (solid)
	Water solubility	insoluble	Odour threshold	Not determined
	Evaporation rate	Not applicable	Flammability	Non flammable
	Explosion limits	Not applicable	Vapour pressure	Not applicable
	Vapour density	Not applicable	Partition coeff. LogPoct/water	Not applicable
	Auto-ignition temperature	Not applicable	Viscosity	Not applicable
	Explosive properties	Not determined	Oxidising properties	Not determined
	Decomposition temperature	Not determined		
9.2	Other information	None known		

10 STABILITY AND REACTIVITY		
10.1	Reactivity	Heat is generated when solid forms are dissolved in water
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	None known
10.5	Incompatible material	None known
10.6	Hazardous decomposition products	None known

11 TOXICOLOGICAL INFORMATION		
11.1 Information on toxicological effects		
	Acute toxicity	LD ₅₀ rat (oral) 1,000 mg/kg
	Dermal compatibility	No data available
	Mucous membrane	No data available – might cause eye irritation
	Further information	None known

12 ECOLOGICAL INFORMATION						
12.1	Toxicity	LC ₅₀	Aquatic organisms		mg/l	Not determined
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not expected to bioaccumulate	
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	None known				

13 DISPOSAL CONSIDERATIONS		
Advice on disposal	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Material is a special waste under UK legislation	
Contaminated packaging	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle	

14 TRANSPORT INFORMATION					
14.1	United Nations number (ADR, IMDG, IATA)	Not classified	14.2	Proper shipping name (ADR, IMDG, IATA)	Not classified
14.3	Transport class(s) (ADR, IMDG, IATA)	Not classified	14.4	Packing group (ADR, IMDG, IATA)	Not classified
14.5	Environmental hazards (ADR, IMDG, IATA)	Not classified	14.6	Special procedures (ADR, IMDG, IATA)	Not applicable
14.7	Transport in bulk	Not applicable			

15 REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations	In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP) the product is not classified. Other regulatory information and provisions are not applicable for this product
15.2	Chemical safety assessment	Not applicable

16 OTHER INFORMATION	
Further information	The SDS has been prepared in accordance with EC Regulation 1272/2008 (CLP)
Hazard statements referred to in sections 2/3	
H319	Causes serious eye irritation.
	Comply with COSHH Regulations
Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)
Date of issue	01/06/2015
This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific problems	