Safety Data Sheet

Product name:
Sofnolime®

Safety Data Ref: 23
Initial issue date: 09 March 2012
Revision date: 01 June 2015
Version number: 18

molecular

1	IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier	Soda Lime (Sofnolime, Medisorb, Soda Lime, Soda Lime HC, Easysorb, CHIRAlime, Limepak, Medisize, Limedic, Aneslime, Vetsorb, SodaSthesia, Leonsorb plus)
1.2	Relevant use(s)/misuse(s)	As an absorbent for carbon dioxide and other acidic gases
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 (24 hour emergency number, 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 (i.e. Sofnolime)			
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) – see section 11			
	Skin irrit 2	H315	Eye irrit. 2	H319
2.1.2	See section 16 for full text of H 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			
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	Precautionary statements			
	P280	Wear protective gloves/protective clothing/eye protection/face protection		
	P314	Get medical advice/attention if you feel unwell		
	P302/352	If on skin: wash with plenty of soap and water		
	P305/351/338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing		
	P332/313	If skin irritation occurs: get medical advice/attention		
2.3	Other hazards			
	None known			

3	COMPOSITION / INFORMATION ON INGREDIENTS				
	Chemical characterisation	Solid bases plus additives – see section 16 The CHIP/CLP classifications required in this section are related to that of the product supplied. To comply with the legislation the classification of the relevant ingredients of the product, as if they were present at 100%, must be outlined. Where ingredients are present in the product at very low concentrations the level of risk to the user is reduced, hence the reason that the classifications for the individual components and the product are different			
	Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
	Sodium Hydroxide	1310-73-2	215-185-5	CHIP: C: R35 CLP: Skin Corr. 1A H314	<4%
	Calcium Hydroxide	1305-62-0	215-137-3	CHIP: Xi: R38. 41 CLP: Skin Irrit. 2 H315 Eye Damage 1 H318 WEL assigned	>75%

4	FIRST AID MEASURES	
4.1	Description of measures	
	Inhalation	Remove casualty to fresh air and provide warmth and rest
	Skin contact	Clean areas of skin affected immediately with soap and plenty of water. If necessary, seek medical advice
	Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides; consult an eye specialist/ophthalmologist

	Ingestion	Unlikely route of exposure. But if product is swallowed, do not induce vomiting. Drink plenty of water and, if necessary, seek medical advice
4.2	Most important effects/symptoms	None known
4.3	Immediate/special treatment	Treatment as described above

5	FIRE FIGHTING MEASURES	
5.1	Extinguishing media	To suit local surroundings (e.g. chemical powder, carbon dioxide, dry sand, water)
5.2	Special hazards	None known
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
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 mechanically (e.g. sweep or vacuum up) into tightly closed containers. Adhere to personal protective measures. Flush any remainder with plenty of water. 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 the raising and deposition of dust
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (0-35°C) and dry, avoiding direct sunlight
7.3	Specific end use(s)	As an absorbing agent

8	EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005)				
	STEL (15 mins)	ppm	2	mg/m³	Data for sodium hydroxide
	LTEL (8 hour TWA)	ppm	5	mg/m³	Data for calcium hydroxide
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 inhalation of dust if raised Wear personal protective equipment appropriate to the task (see below)			
	Eye protection	Safety goggles if risk of eye contamination			
	Skin protection	Suitable gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)			
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient			
	Other protection	Protective overalls			

9	PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Physical form	Solid	Colour	White or coloured
	Odour	Odourless	pH	12-14
	Boiling pt / range	Not determined	Melting pt / range	Not determined
	Flash point	Not applicable	Relative density	~ 0.9g/cm³
	Water solubility	Slight	Odour threshold	Not applicable
	Evaporation rate	Not applicable	Flammability	Not applicable
	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 if exposed to acids
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Contact with air – formation of calcium and sodium carbonate
10.5	Incompatible material	Chloroform, trichloroethylene
10.6	Hazardous decomposition products	None

11	TOXICOLOGICAL INFORMATION			
11.1	Information on toxicological effects			
	Acute toxicity	LD (lo) rabbit (oral)	500 mg/kg	Data for sodium hydroxide
		LD_{50} rat (oral)	>7000 mg/kg	Data for calcium hydroxide
	Dermal compatibility	No data available		
	Mucous membrane	No data available		
	Further information	Although using the 'specific concentration' limits under CLP, the product classification would be 'corrosive', using EU official in vitro tests on the whole product, it was found to be irritating to eyes and skin, not corrosive (Huntingdon Life Sciences Ref. MPW001)		

12	ECOLOGICAL INFORMATION					
12.1	Toxicity	LC_{50}	Aquatic organisms		mg/l	No data available
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not determined	
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	WGK (Water-endangerment class): 1				

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
	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)	The product should not be marked as a marine pollutant	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	The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP). 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 revised in accordance with EC Regulation 1272/2008 (CLP)		
		Comply with COSHH Regulations		
	Hazard statements referred to in sections 2/3			
	H314	Causes severe skin burns and eye damage	H318	Causes serious eye damage
	H315	Causes skin irritation	H319	Causes serious eye irritation
	Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011) OECD 431, 2004 Testing of chemicals, in vitro skin corrosion, human skin test model		
	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			