Safety Data Sheet

Product name:

Sofnolime® SoLo

Document N°: LB01-00429 Issue: 3

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Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 Prepared according to GB CLP which is the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

	SECTION I: IDENT	TIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY				
1.1	Product identifier	Substance name: Soda Lime (Sofnolime SoLo, Medisorb EF, Leonsorb Premium, Super Limedic)				
1.1	Unique Formula Identifier (UFI)	3C00-W0DX-T007-ITQA				
1.2	Relevant identified uses of the substance or mixture and uses advised against	Relevant identified uses: As an absorbent for carbon dioxide and other acidic gases Uses advised against: No data Reason why uses advised against: No data				
1.3	Details of the supplier of the safety data sheet	Molecular Products Ltd Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK +44 (0) 1279 445111* sds@molprod.com * Only available during office hours 0900 - 1700 GMT				
1.4	Emergency telephone number	+44 (0) 1865 407333 (24hr, English speaking) +86 532 8388 9090 (China, NRCC) +52 555 004 8763 (Mexico) +56 225 829 336 (Chile) +55 11 3197 5891 (Brazil) +47 2103 4452 (Norway)				
2	SECTION 2: HAZA	RDS IDENTIFICATION				
2.1		SECTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture				
2	Classification accord	Classification according to Regulation (EC) No. 1277/2008 (CLP/GHS)				

2	SECTION 2: HAZARDS IDENTIFICATION						
2.1	Classification of the substance or mixture						
2.1.1	Classification accord	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)					
	Skin irrit 2		H315				
	Eye dam. I		H318				
2.1.2	See section 16 for for	ull text of H s	catements				
2.2	Label elements						
2.2.1	Labelling in accorda	nce with EC R	egulation No 1272/2008 (C	LP/GH	S)		
	Hazard pictogram		<u>(!</u>)		Signal word	DANGER	
	Hazard statements						
	H315	Causes skin	irritation				
	H318	Causes seri	ous eye damage				
	Precautionary states	ments					
	P264	Wash hand	and face thoroughly after h	handling	B		
	P280	Wear prote	ective gloves/protective clot	hing/ey	e protection/face protection		
	P302 +P352		I: Wash with plenty of wate				
	P305+P351+P338	5+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
	P310	Immediately call POISON CENTRE or doctor/physician					
	P362 + P364	Take off contaminated clothing and wash it before reuse					
	Supplemental Hazard information (EU)	No data					
2.3	Other hazards						
					ard Test Method for pH of Activated C for classification of H314; but has beer		

3	SECTION 3: COMP	SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS						
3.2	Mixtures							
	Chemical name	CAS No.	Index No.	REACH Registration No.	EC No.	Classification according to Regulation (EC) No 1278/2008 (CLP)	% [weight]	SCL, M- factor, ATE
	Sodium hydroxide	1310-73-2	011-002- 00-6	01-2119-457- 892-27- XXXX	215-185-5	Skin Corr. IA H314	<1%	No data
	Calcium hydroxide	1305-62-0	No data	01-21194-75- 151-45-0630	215-137-3	Skin Irrit. 2 H315 Eye Damage 1 H318 STOT SE 3 H335	>75%	No data

4	SECTION 4: FIRST AID MEA	SECTION 4: FIRST AID MEASURES				
4.1	Description of first aid meas	Description of first aid measures				
	General notes					
	Following inhalation	Remove casualty to fresh air and provide warmth and rest				
	Following skin contact	Clean areas of skin affected immediately with soap and plenty of water. If necessary, seek medical advice				
	Following eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides; consult an eye specialist/ophthalmologist				
	Following ingestion	Unlikely route of exposure. But if product is swallowed, do not induce vomiting. Drink plenty of water and, if necessary, seek medical advice				
	Self-protection of the first aider	If the atmosphere is dusty ensure that there is sufficient LEV or suitable respiratory protective equipment is used				
4.2	Most important symptoms and effects, both acute and delayed	None known				
4.3	Indication of any immediate medical attention and special treatment needed	Treatment as described above				

5	SECTION 5: FIRE FIGHTING MEASURES				
5.1	Extinguishing media	Suitable extinguishing media: Product does not burn, Chemical powder, dry sand and if water is used collect contaminated water separately, must not be discharged into the drains Unsuitable extinguishing media: carbon dioxide			
5.2	Special hazards arising from the substance or mixture	Hazardous combustion products: Not determined			
5.3	Advice for fire fighters Self-contained breathing apparatus may be required				

6	SECTION 6: ACCIDENTAL	SECTION 6: ACCIDENTAL RELEASE MEASURES			
6.1	For non-emergency personnel: Personal precautions, protective equipment and emergency procedures For non-emergency personnel: - Avoid dust formation - Use personal protective clothing				
		For emergency responders: use breathing apparatus if exposed to vapours/dust/aerosol.			
6.2	Environmental precautions	Collect contaminated water/firefighting water separately. Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once			
6.3	Methods and materials for containment and cleaning up	For containment: No data 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 water. Collect the split soda lime/ water into suitable labelled containers and dispose of as prescribed in section 13 Other information: No data			
6.4	Reference to other sections	See section 8 for personal protective equipment			

7	SECTION 7: HANDLING AND STORAGE		
7.1	Precautions for safe handling	Protective measures: Handle in accordance with good hygiene and safety practice with appropriate PPE. Avoid the raising and deposition of dust during filling, pouring or moving material. Treat gently to prevent the formation and deposition of dust. Ensure only alkali resistant materials are in contact with the soda lime Measures to prevent fire: the product is not combustible, avoid the formation of dust, adhere to general fire prevention measures Measures to prevent aerosol and dust generation: Avoid generating dust by agitation Measures to protect the environment: No data Advice on general occupational hygiene: No data	

7.2	Conditions for safe storage	Technical measures and storage: Keep in original containers away from acids Packaging materials: No data Requirements for storage rooms and vessels: Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (0-35°C) and dry, avoiding direct sunlight Storage class: - Further information on storage conditions: No data
7.3	Specific end use(s)	Recommendations: As an absorbing agent Industrial sector specific solutions: Medical/industrial carbon dioxide absorbent

exposure effect local systemic effects local systemic local l	8	SECTION 8: EX	(POSUF	RE CONT	TROLS / PERSOI	NAL PROTE	CTION					
Workplace Exposure Limits (WELs) have been assigned by the HSE (EH4002020) STEL (15 mins) ppm 2 mg/m² Data for sodium hydroxide LTEL (Shour TWA) ppm 5 mg/m² Data for sodium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 1310-73-2 mg/m² Data for calcium hydroxide CAS mg/m² Data for calcium hydroxide EC number 1310-73-2 mg/m² Data for calcium hydroxide CAS mg/m² Data for calcium hydroxide EC number 1310-73-2 mg/m² Data for calcium hydroxide CAS mg/m² Data for calcium hydroxide EC number 215-185-5 CAS mg/m² Data for calcium hydroxide EC number 101-185-5 CAS mg/m² Data for calcium hydroxide EC number 101-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 101-185-5 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² Data for calcium hydroxide EC number 215-137-3 CAS mg/m² No hazard functified derived) Dermal (No hazard functified derived) EN no hazard functified derived) EN no hazard functified derived derive	8.1	Control parame	ters									
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, , , , , , , , , , , , , , , , , , , ,							0.49 mg/L					
		Freshwater sedi	ments					Insufficient da	ta available (fur	ther information ne	ecessary)	
Marine water 0.32 mg/L		Marine water						0.32 mg/L				
Marine sediments Insufficient data available (further information necessary)		Marine sedimen	ts					Insufficient da	ta available (fur	ther information ne	ecessary)	

	Food chain		No potential for bioaccumulation	
	Microorganisms in sewage treatn	nent	3 mg/L	
	Soil (agriculture)		1080 mg/kg soil dw	
	Air		No hazard identified	
8.2	Exposure controls			
	Personal protection equipment	Observe normal standards for handling ch Wash hands before breaks and after work Avoid inhalation of dust if raised Wear personal protective equipment appr		
	Eye and face protection	Safety goggles if risk of eye contamination;	BS EN 166:2002	
			PE Cat. III according to (EU) regulation, 2016/425, thickness 0.15- ase also consider your own risk assessment e.g., tasks undertaken ; disposable paper suit.	
	Respiratory protection Approved dust mask or respirator (e.g., El		EN 149:2001 FFP3) for dust if ventilation is insufficient	
	Thermal hazards No data			
	Environmental exposure controls	No data		

9	SECTION 9: PHYSICAL AN	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
9.1	Information on basic physica	Information on basic physical and chemical properties					
	Physical state	Solid	Colour	White or coloured			
	Odour	Odourless	рН	< 12.5			
	Boiling pt/range	Not determined	Melting point/freezing point	Not determined			
	Flash point	Not applicable	Relative density	~ 0.9g/cm³ Not applicable			
	Solubility	Slight	Odour threshold				
	Evaporation rate	Not applicable	Flammability	Not applicable			
	Lower and upper explosion limit	Not applicable	Vapour pressure	Not applicable			
	Relative vapour density	Not applicable	Partition coeff. LogPoct/water	Not applicable			
	Auto-ignition temperature	Not applicable	Kinematic viscosity	Not applicable			
	Explosive properties	Not determined	Oxidising properties	Not determined			
	Decomposition temperature	Not determined	Particle characteristics	Not determined			
9.2	Other information	None known					

10	SECTION 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	Possibility of hazardous reactions	Hazardous polymerisation will not occur			
10.4	Conditions to avoid	Contact with air – formation of calcium and sodium carbonate			
10.5	Incompatible materials	Chloroform, trichloroethylene			
10.6	Hazardous decomposition products	None			

11	SECTION II: TOXICOLOGICAL INFORMATION							
11.1	Information on haza	nformation on hazard classes as defined in Regulation (EC) No 1272/2008						
	Hazard class	Method Species Route of exposure		Effective dose	Exposure time	Results		
	Acute toxicity	LD (lo)	Rabbit	Oral	500 mg/kg	No data	Data for sodium hydroxide	
		LD ₅₀	Rat	Oral	>7000 mg/kg	No data	Data for calcium hydroxide	
	Skin corrosion/ irritation Serious eye damage/ irritation Respiratory or skin sensitisation Germ cell mutagenicity Highly corrosive Causes serious eye damage Not a sensitiser No clastogenic activity observed							
	Reproductive toxicity Not applicable							

	Summary of evaluation of the CMR properties	No valid studies were identified regarding developmental toxicity nor toxicity to reproduction in animals after oral, dermal or inhalation exposure to NaOH
	STOT-single exposure	LD50 325 mg/kg bw
	STOT-repeated exposure	Oral, rat one-year study. No effects observed.
	Aspiration hazard	No data
		Although using the 'conventional method' under CHIP 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

12	SECTION 12: ECOLOGICAL INFORMATION				
12.1	Toxicity (Calcium hyd	Toxicity (Calcium hydroxide)			
	Acute (short-term) toxicity	Fish: 96h LC50 50.6 mg/L (Onchorhyncus mykiss) Crustacea: No data Algae/aquatic plants: ECr50 (72h) 184.57 mg/L (Pseudokirchneriella subcapitata) Other organisms 48h EC50 49.1 mg /L (Daphnia magna)			
	Fish: No data Chronic (long- term) toxicity Fish: No data Crustacea: 14d NOEC 32 mg/L Sand shrimp (Crangon septemspinosa) Algae/aquatic plants NOEC 48 mg/L (Pseudokirchneriella subcapitata) Other organisms: No data				
12.2	Persistence and degradability	Abiotic Degradation: No data Physical- and photo-chemical elimination: No data Biodegradation: Not applicable to inorganic substances			
12.3	Bioaccumulative potential	Partition coefficient n-octanol /water (log Kow): No data Bioconcentration factor (BCF): No data			
12.4	Mobility in soil	Known or predicted distribution to environmental compartments: No data Surface tension: No data Adsorption/Desorption: No data			
12.5	Results of PBT and vPvB assessment	Not determined			
12.6	Endocrine disrupting properties	Not determined			
I 2.7 Other adverse effects No data		No data			

13	SECTION 13: DISPO	SECTION 13: DISPOSAL CONSIDERATIONS		
13.1	Waste treatment me	Waste treatment methods		
	Product/packaging 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. Treat empty containers in the same way as the product. If possible, wash out thoroughly and recycle Waste codes/ waste designations according to LoW: No data		
	Waste treatment- relevant information	No data		
Sewage disposal- relevant No d information		No data		
	Other disposal recommendations	No data		

14	SECTION 14: TRANSPORT INFORMATION				
14.1	UN number or ID number	Not classified	14.2	UN proper shipping name	Not classified
14.3	Transport hazard class(es)	Not classified	14.4	Packing group	Not classified
14.5	Environmental hazards	The product should not be marked as a marine pollutant	14.6	Special precautions for user	Not applicable
14.7	Maritime transport in bulk according to IMO instruments	Not applicable			

15	SECTION 15: REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations		
	The SDS has been updated in accordance with EC Regulation No 1272/2008 (CLP/GHS),		
15.2	Chemical safety assessment		
	Not applicable		

	16	SECTION 16: OTHER INFORMATION			
ĺ		Indication of	This SDS has been revised in accordance with EC Regulation 1272/2008 (CLP) and in response to a change in Annex II		
changes REACH regulations, June 2020. Classification change from		changes	REACH regulations, June 2020. Classification change from Eye irrit. 2 to Skin irrit 2		

	Abbreviations and acronyms	None			
	Key literature references and sources for data	Other suppliers' safety data sheets, Annex VI of the CLP Regulation (EC) No 1272/2008, EH40 (2020) OECD 431, 2004 Testing of chemicals, in vitro skin corrosion, human skin test model, ECHA website			
	Prepared by	Dr Patricia Wormald, Molecular Products, <u>pw@molprod.com</u> Neil Stearn, Cambridge Environmental Assessments, <u>neil.stearn@cea-res.co.uk</u>			
	Date of issue	30 January 2022			
	Classification according to Regulation (EC) Nr 1272/2008 Skin irrit 2, H315 Eye dam. I, H318		Classification procedure		
	Relevant H statements (number and full text)	H315, Causes skin irritation H318, Causes serious eye damage H335, May cause respiratory irritation			
	Further information	Comply with COSHH Regulations 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			