

Safety Data Sheet



Product name:

Sofnolime®

Revised edition no: 448 - Rev F

Date: 18 May 2023

Supersedes: Revision edition no: 448 – Rev E

1 PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Soda Lime (Sofnolime, Medisorb, Soda Lime, Soda Lime HC, Easysorb, CHIRAlime, Limepak, Medisize, Limedic, Aneslime, Vetsorb, SodaSthesia, Leonsorb plus)
CAS Number	Mixture
Product Use	As an absorbent for carbon dioxide and other acidic gases
Supplier / Manufacturer's Name	Molecular Products, Inc. (a subsidiary of Molecular Products Group) 633 CTC Boulevard, Louisville, CO, 80027, USA 303 666 4400
Emergency Contact	+1 202 464 2554 US and Canada / +44 (0)1865 407333 (24 hour emergency number)
Date of Preparation	01 February 2012
Date of Previous Revision	21 July 2022

2 HAZARDS IDENTIFICATION	
US DOT Symbols	Non-Regulated
GHS Hazard Symbols	Signal Word: DANGER
GHS Hazard Classification(s)	Skin Corr: Category I
Hazard Statement(s)	H314: Causes severe skin burns and eye damage
Precautionary Statement(s)	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection. P303/361/353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician

3 COMPOSITION AND INFORMATION ON INGREDIENTS				
Composition	Solid bases plus additives			
Hazardous Ingredients	CAS #	WT %	Hazard Classification	
Calcium Hydroxide	1305-62-0	> 75%	H315 Skin Irrit. 2 H318 Eye Damage 1 STOT SE 3 H335	
Sodium Hydroxide	1310-73-2	< 4%	H314 Skin Corr. 1	

4 FIRST-AID MEASURES	
Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.	
Eye Contact	If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.
Skin Contact	Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.
Inhalation	Move the exposed person to fresh air. Seek medical advice if symptoms develop or persist
Ingestion	If product is swallowed, do NOT induce vomiting! Drink plenty of water. Rinse mouth thoroughly with water! Get medical attention immediately!
Target Organs	Acute: Eye, Respiratory System, Skin Chronic: None Known
Medical Conditions Aggravated by Exposure	Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.
Recommendations to Physicians	Treat symptoms

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5 FIRE-FIGHTING MEASURES	
Flash Point	Not Applicable
Auto-Ignition Temperature	Not Applicable
Flammable Limits (in air by volume, %)	Not Applicable
Fire Extinguishing Materials	As appropriate for surrounding fire. Carbon dioxide, foam, dry chemical, halon, or water spray.
Unusual Fire and Explosion Hazards	None known
Explosion Sensitivity to Mechanical Impact	Not Sensitive
Explosion Sensitivity to Static Discharge	Not Sensitive
Special Fire-Fighting Procedures	Self-Contained Breathing Apparatus may be required

6 ACCIDENTAL RELEASE MEASURES	
Spill and Leak Response	In the event of spill, take up mechanically (exp. Sweep or vacuum up) into tightly closed containers. Adhere to personal protective measures. Flush any remainder with plenty of water.
Spill response PPE	Suitable eye, and skin protection should be worn as well as NIOSH approved dust mask.

7 HANDLING AND STORAGE	
Work Practices and Hygiene Practices	As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product.
Storage and Handling Practices	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (0-35 °C) and dry, avoiding direct sunlight.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION			
Exposure Limits/Guidelines			
Chemical Name	CAS #	ACGIH TWA	OSHA TWA
Calcium Hydroxide	1305-62-0	5 mg/m ³	5 mg/m ³
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³
Ventilation and Engineering Controls			
Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.			
Personal Protective Equipment			
The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.			
Respiratory Protection	Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent to U.S. State standards, Canadian CSA Standard Z94.4-93.		
Eye protection	Safety glasses or chemical goggles		
Hand Protection	Use protective gloves to minimize contact.		
Body Protection	Use body protection to prevent contact (e.g. lab coat, coveralls).		

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9 PHYSICAL AND CHEMICAL PROPERTIES	
Physical State	Solid
Appearance and Odor	White or coloured, no odor
Odor Threshold (PPM)	Not Applicable
Vapor Pressure (mmHg)	Not Applicable
Vapor Density (AIR=1)	Not Applicable
Density	≈ 0.9 g/cm ³
Evaporation Rate (nBuAc=1)	Not Applicable
Boiling Point (°C)	Not Determined
Freezing Point (°C)	Not Determined
pH	12-14
Specific Gravity 4° C (Water=1)	≈ 0.9
Solubility in Water (%)	Slight
VOC	Not Applicable

10 STABILITY AND REACTIVITY	
Stability	Stable under normal handling conditions
Decomposition Products	None
Materials with which Substance is Incompatible	Chloroform, trichloroethylene, damp low density/base metal, aqueous metal solutions and acids
Hazardous Polymerization	Does not occur
Conditions to Avoid	Contact with air – formation of calcium and sodium carbonate Contact with acids – strong exothermic reaction with acids Contact with damp low density metals, base metals and aqueous metal solutions produces hydrogen

11 TOXICOLOGICAL INFORMATION	
Toxicity: There is no available data for the product, only for the ingredients.	
CAS # 1305-62-0 LD (50)	> 7000 mg/kg Rat - Oral
CAS # 1310-73-2 LD (lo)	500 mg/kg Rabbit - Oral
Suspected Cancer Agent	None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be, a cancer-causing agent by these agencies.
Irritancy	Contact with this product can be irritating to exposed skin, eyes, and respiratory system.
Sensitization	This product is not considered a sensitizer.
Reproductive Toxicity	No information concerning the effects of this product and its components on the human reproductive system.
Health Hazards or Risks from Exposure	Acute: Exposure to this product can be irritating to eyes, respiratory system and skin Inhalation: Inhalation of dusts may cause nose, throat and respiratory tract irritation Eye: May cause irritation Skin: May cause irritation Ingestion: May cause irritation to gastrointestinal tract Chronic: None known
Target Organs	Acute: Eye, Respiratory System, Skin Chronic: None Known

12 ECOLOGICAL INFORMATION	
All work practices must be aimed at eliminating environmental contamination.	
Environmental Stability	The ecological characteristics of this product have not been fully investigated.
Effect of Material on Plants or Animals	No data is available for the effects of this product on plants or animals.
Effect of Chemical on Aquatic Life	No data for effects on aquatic life.

Note: This product is readily biodegradable and is not expected to bio-accumulate.

13 DISPOSAL CONSIDERATIONS	
Preparing Wastes for Disposal	Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

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14 TRANSPORTATION INFORMATION					
14.1	United Nations number (DOT, ADR, ADN, IMDG, IATA)	Not applicable	14.2	UN proper shipping name (DOT, ADR, ADN, IMDG, IATA)	Not applicable
14.3	Transport hazard class(es) (DOT, ADR, ADN, IMDG, IATA) Class	Not applicable	14.4	Packing group (DOT, ADR, IMDG, IATA)	Not applicable
14.5	Environmental hazards	Not applicable	14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	14.8	Transport/Additional information (DOT) Quantity limitations	Not applicable On passenger aircraft/rail: -
14.9	ADR Remarks:	Contains <4% Sodium Hydroxide, see Special Provision 62 & A16	14.10	IMDG Remarks:	Contains <4% Sodium Hydroxide, see Special Provision 62 & A16
14.11	IATA Remarks:	Contains <4% Sodium Hydroxide, see Special Provision A16			

15 REGULATORY INFORMATION				
	SARA			
	SARA 302/304	None of the ingredients is listed.		
	SARA 313	None of the ingredients is listed.		
	SARA 311/312	Health Hazard - Skin corrosion or irritation		
		Health Hazard - Serious eye damage or irritation		
		Health Hazard - Specific target organ toxicity (single or repeated exposure)		
	TSCA (Toxic Substances Control Act):	Inventory listing could not be confirmed for one or more substances.		
15.2	Proposition 65:			
	Chemicals known to cause cancer:	None of the ingredients is listed.		
	Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.		
	Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.		
	Chemicals known to cause developmental toxicity:	None of the ingredients is listed.		
15.3	Carcinogenic categories:			
	EPA (Environmental Protection Agency)	None of the ingredients is listed.		
	NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.		
15.4	Canadian Regulations			
	Canadian DSL:	All ingredients are listed.	Canadian NDSL:	All substances are listed or exempt from listing.

16 OTHER INFORMATION				
	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.			
16.1	Relevant phrases			
	H314	Causes severe skin burns and eye damage	P260	Do not breathe dust/fume/gas/mist/vapors/spray
	P264	Wash thoroughly after handling	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P303/361/353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	P305/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 a POISON CENTER or doctor.		
16.2	Department issuing SDS	Product Safety and Regulatory Affairs Group		

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16 OTHER INFORMATION		
16.3	Other information	This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.
16.4	Abbreviations and acronyms	
	ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
	IMDG	International Maritime Code for Dangerous Goods
	DOT	US Department of Transportation
	IATA	International Air Transport Association
	EINECS	European Inventory of Existing Commercial Chemical Substances
	ELINCS	European List of Notified Chemical Substances
	CAS	Chemical Abstracts Service (division of the American Chemical Society)
	NFPA	National Fire Protection Association (USA)
	HMIS	Hazardous Materials Identification System (USA)
	LC50	Lethal concentration, 50 percent
	LD50	Lethal dose, 50 percent
	PBT	Persistent, Bioaccumulative and Toxic
	vPvB	very Persistent and very Bioaccumulative
	NIOSH	National Institute for Occupational Safety
	OSHA	Occupational Safety & Health
	TLV	Threshold Limit Value
	PEL	Permissible Exposure Limit
	REL	Recommended Exposure Limit
	Met. Corr. 1	Corrosive to metals – Category 1
	Skin Corr. 1A	Skin corrosion/irritation – Category 1A
	Skin Irrit. 2	Skin corrosion/irritation – Category 2
	Eye Dam. 1	Serious eye damage/eye irritation – Category 1
	Eye Irrit. 2A	Serious eye damage/eye irritation – Category 2A
	STOT SE 3	Specific target organ toxicity (single exposure) – Category 3
	Prepared By	Molecular Products
	Disclaimer: The information in this safety data sheet is based on the best knowledge available at the time and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application. As the specific conditions of use are outside the control of the supplier, the user is responsible for ensuring that the product is used in a safe way and in compliance with the relevant requirements of legislation.	
	Date of issue	18 May 2023