

Safety Data Sheet



Product name:

SODASORB® LF

Revised edition no: 797 - Rev D

Date: 18 May 2023

Supersedes: 797 Rev C

1 PRODUCT AND COMPANY IDENTIFICATION		
1.1	Product Name	SODASORB® LF
1.2	CAS Number	Mixture
1.3	Product Use	Absorbent. Intermediate product of varied applicability in industry and trade.
1.4	Supplier / Manufacturer	Molecular Products, Inc (a subsidiary of Molecular Products Group) 633 CTC Boulevard, Louisville CO, 80027, USA
1.5	Emergency Contact	+1 202 464 2554 US and Canada
1.6	Date of Initial Preparation	08 Jan 2020
1.7	Date of Previous Revision	27 May 2022

2 HAZARDS IDENTIFICATION						
2.1 Classification of the substance or mixture (i.e. Sodasorb)						
2.1.1 Classified according to OSHA 2012 HCS 29 CFR 1910.1200 and the Canadian Hazardous Products Act WHMIS 2015. The product is classified and labeled according to the Globally Harmonized System (GHS).						
	Skin Irrit. 2	H315	Eye Dam. 1	H318	STOT SE 3	H335
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)						
	Pictograms			Signal Word	DANGER	
Hazard Statements						
	H314	Causes severe skin burns and eye damage				
Precautionary Statements						
	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.				
2.3 Other Hazards						
	None known					

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3 COMPOSITION AND INFORMATION ON INGREDIENTS

3.1	Chemical characterization	Solid bases plus additives – see section 16 The 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	Concentration	CAS No	Classification
	calcium hydroxide	50-100%	1305-62-0	Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335
	calcium chloride	1-3%	10043-52-4	Eye Irrit. 2A, H319
	sodium hydroxide	0.1-1%	1310-73-2	Met. Corr. 1, H290; Skin Corr. 1A, H314

4 FIRST-AID MEASURES

4.1	Description of measures	
	Inhalation	In case of unconsciousness place patient stably in the recovery position for transportation
	Skin contact	Immediately flush skin with water for at least 15 minutes.
	Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Then consult a doctor
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	Use fire-fighting measures that suit the environment Carbon monoxide and carbon dioxide
5.2	Special hazards	None known
5.3	Advice for firefighters	Do not inhale explosion gases or combustion gases Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations

6 ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions	Wear protective equipment. Keep unprotected persons away
6.2	Methods and materials for clean up	Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation
6.3	Environmental precautions	Do not allow to get into waterways or waste water. If this occurs, inform the relevant water authorities at once
6.4	Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

7 HANDLING AND STORAGE

7.1	Precautions for safe handling	Thorough dedusting. Avoid raising and deposition of dust. Handle in accordance with good hygiene practices.
7.2	Information about protection against explosions and fires	No special measures required.
7.3	Conditions for safe storage, including any incompatibilities	Use only receptacles specifically permitted for this substance/product. Store away from foodstuffs. Protect from frost. Store in dry conditions.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Exposure limits/guidelines		
	Components with limit values that require monitoring at the workplace	The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.	
	Chemical Name	CAS #	OSHA PEL
	Calcium hydroxide	1305-62-0	Long-term value: 5 mg/m ³ PEL: Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction REL: Long-term value: 5 mg/m ³
	Sodium hydroxide	1310-73-2	Ceiling limit value: 2 mg/m ³ PEL: Long-term value: 2 mg/m ³ REL: Ceiling limit value: 2 mg/m ³
8.2	Exposure controls		
	Engineering controls	No further relevant information available.	
	Personal Protection	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Prevent contact with the eyes and skin.	
	Respiratory protection	In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use respirator that is independent of circulating air. As appropriate for the employee exposure, use a NIOSH approved respirator and cartridge. As appropriate for the employee exposure, use a NIOSH approved respirator and cartridge.	
	Skin protection	Protective gloves: Check protective gloves prior to each use for their proper condition. The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Recommended thickness of the material: ≥ 0.5 mm	
	Eye protection	Tightly sealed goggles	

9 PHYSICAL AND CHEMICAL PROPERTIES

	Appearance- Form	Pellets	Appearance- Color	Whitish
	Odor	Characteristic	pH-value	Not applicable
	Melting point / Melting range	Not determined	Boiling point / Boiling range	Not determined
	Flash Point	Not available	Flammability (solid, gaseous)	Not determined
	Decomposition Temperature	Not determined	Igning	Product is not self-igniting
	Danger of explosion	Product does not present an explosion hazard	Upper/Lower Explosion limits	Not determined
	Explosion data – sensitivity to mechanical impact	Not determined	Explosion data – sensitivity to static discharge	Not determined
	Vapor pressure at 20°C (68 °F)	23hPa (17.3 mm Hg)	Density	Not determined
	Specific Gravity	Not available	Vapor Density	Not applicable
	Evaporation Rate	Not applicable	Solubility in / Miscibility with water	Insoluble
	Coefficient of water/oil distribution	Not available	Viscosity- Dynamic	Not applicable
	Viscosity- Kinematic	Not applicable	Organic solvents	0.0%
	Water	13.6%	Other information	No further relevant information available

10 STABILITY AND REACTIVITY

10.1	Reactivity	No further relevant information available
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10 STABILITY AND REACTIVITY		
10.2	Chemical stability	No decomposition if used according to specifications
10.3	Hazardous reactions	May react with trichloroethylene, producing dichloroacetylene, carbon monoxide and phosgene
10.4	Conditions to avoid	In case of thermal decomposition caused by smouldering and incomplete combustion toxic fumes may be developed
10.5	Incompatible materials	Protect from contamination
10.6	Hazardous decomposition products	No dangerous decomposition products known

11 TOXICOLOGICAL INFORMATION						
11.1	Information on the likely routes of exposure Delayed and immediate effects and chronic effects from short or long-term exposure Information on toxicological effects					
Acute toxicity						
1305-62-0	calcium hydroxide	Oral	LD50	>2,000 mg/kg (rat) (OECD 425)		ECHA 2011
		Dermal	LD50	>2,500 mg/kg (rabbit) (OECD 402)		ECHA 2011
10043-52-4	calcium chloride	Oral	LD50	2,120 mg/kg (rat) (OECD 401)		ECHA 2011
		Dermal	LD50	2,630 mg/kg (rat)		IUCLID Dataset (18/Feb/2000)
		Dermal	LD50	>5,000 mg/kg (rabbit)		ECHA 2011
1310-73-2	sodium hydroxide	Dermal	LD50	1,350 mg/kg (rabbit)		IUCLID Dataset 18-Feb-2000
Primary irritant effect- on the skin		Irritation of skin	IS	>60 (in-vitro) (OECD 425)	comp. product	GRACE
1305-62-0	calcium hydroxide	Irritation of skin	IS	(rabbit) (OECD 404)		ECHA 2011
10043-52-4	calcium chloride	Irritation of skin	IS	(rabbit) (OECD 404)		ECHA 2011
1310-73-2	sodium hydroxide	Irritation of skin	IS	5.6 (rabbit) (§ 1500.41 in Federal Register Vol. 38, No. 187)		ECHA 2014
Primary irritant effect- on the eye						
1305-62-0	calcium hydroxide	Irritation of eyes	IS	(rabbit) (OECD 405)		ECHA 2011
10043-52-4	calcium chloride	Irritation of eyes	IS	(rabbit) (OECD 405)		ECHA 2011
1310-73-2	sodium hydroxide	Irritation of eyes	IS	>2.25 (rabbit) (OECD 405)		ECHA 2014
Respiratory sensitization		No further relevant information available.				
Skin sensitization						
1310-73-2	sodium hydroxide	Sensitization	SI	0 (human being)		ECHA 2014
Additional toxicological information						
Carcinogenic categories		IARC (International Agency for Research on Cancer)				None of the ingredients is listed.
		NTP (National Toxicology Program):				None of the ingredients is listed.
		OSHA-Ca (Occupational Safety & Health Administration)				None of the ingredients is listed
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)						
Carcinogenicity		No further relevant information available.				
Mutagenicity						
1310-73-2	sodium hydroxide	AMES Test	mg/plate (Salmonella typhimurium)	negative with and without metabolic activation		ECHA 2014
Reproductive toxicity		No further relevant information available.		Specific target organ toxicity (single exposure)		No further relevant information available.
Specific target organ toxicity (repeated exposure)		No further relevant information available.		Aspiration hazard		No further relevant information available.

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12 ECOLOGICAL INFORMATION							
12.1 Toxicity							
Aquatic toxicity		No further relevant information available.					
Fish toxicity							
1305-62-0	calcium hydroxide	LC50 (96 h)	160 mg/l (Gambusia affinis)	IUCLID Dataset (18-Feb-2000)	50.6 mg/l (Oncorhynchus mykiss)	ECHA 2011	
10043-52-4	calcium chloride	LC50 (96 h)	10,650 mg/l (Lepomis macrochirus)	IUCLID Dataset (18/Feb/2000)	4,630 mg/l (Pimephales promelas)	ECHA 2011	
1310-73-2	sodium hydroxide	LC50 (48h)	189 mg/l (Leuciscus idus)	IUCLID Dataset (18/Feb/2000)			
Water flea toxicity							
1305-62-0	calcium hydroxide	EC50 (48 h)	49.1 mg/l (Daphnia magna) (OECD 202)			ECHA 2011	
10043-52-4	calcium chloride	EC50 (24 h)	>3,000 mg/l (Daphnia magna)	IUCLID Dataset (18/Feb/2000)			
		EC50 (21d)	610 mg/l (Daphnia magna)			ECHA 2011	
		NOEC (48 h)	2,000 mg/l (Daphnia magna) (OECD 202)			ECHA 2011	
1310-73-2	sodium hydroxide	EC50 (48 h)	100 mg/l (Daphnia magna)	IUCLID Dataset (18-Feb-2000)			
Algae toxicity							
1305-62-0	calcium hydroxide	EC10 (72 h)	79.22 mg/l (Pseudokirchneriella subcapitata) (OECD 201)	crangon septemspinosa			
10043-52-4	calcium chloride	EC50 (72 h)	2,900 mg/l (Selenastrum capricornutum) (OECD 201)			ECHA 2011	
		LOEC (120d)	140 mg/l (Chlorella vulgaris)	IUCLID Dataset (18/Feb/2000)			
12.2 Persistence and degradability		No further relevant information available.					
12.2 Bioaccumulative potential		No further relevant information available					
12.3 Mobility in soil		No further relevant information available.					
12.4 General notes		Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.					
PBT / vPvB Assessment		Not applicable					

13 DISPOSAL CONSIDERATIONS	
Advice on disposal	Comply with Federal, State, and local regulations.
Contaminated packaging	Treat empty containers in the same way as product. Must not be disposed of together with garbage. Do not allow product to reach sewage system.

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	14.10	IMDG Remarks:	Contains <4% Sodium Hydroxide, see Special Provision 62
14.11	IATA Remarks:	Contains <4% Sodium Hydroxide, see Special Provision A16			

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15 REGULATORY INFORMATION	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	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
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.

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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	Angie Hellstern
	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