# **SAFETY DATA SHEETS**

This SDS packet was issued with item: 078603375

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078603367 078859823

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	SODASORB® LF
MSDS Number:	C-00671
Cancelled MSDS Number:	C-00581
MSDS Date:	06/13/2007
Chemical Description:	Inorganic Solid Blend
Product Use:	Alkaline Carbon Dioxide absorbent
CAS # (Chemical Abstracts Service Number):	Mixture - NA

#### Manufactured by:

DAREX W.R.Grace & Co.-Conn. 62 Whittemore Avenue Cambridge, MA 02140

#### In Case of Emergency Call: (617) 876-1400

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS				
Ingredient	CAS#	Percent (max)		
Calcium hydroxide	001305-62-0	50-100		
Sodium hydroxide	001310-73-2	<1		

#### SECTION 3 - HAZARDS IDENTIFICATION

### Emergency Overview:

Caution! Causes severe eye irritation. Causes skin irritation. May be harmful if ingested.

#### HMIS Rating:

Health:	2	
Flammability:	0	
Reactivity:	0	
Personal Prote	ctive Equipment:	See Section 8

### Potential Health Effects:

Inhalation: Dust can cause irritation and injury to the respiratory system	
If inhaled as a vapor or mist, causes irritation, sore throat, coughing and breat	hing difficulty.
Effects include: No other effects expected unless listed below.	• •
Eye Contact: Eye contact can cause severe irritation.	
Prolonged eye contact can result in permanent damage.	
Risk of serious damage to eyes.	
Skin Contact: Skin contact causes irritation.	
Prolonged skin contact can result in permanent damage.	
Skin Absorption: Not expected to be harmful if absorbed through the skin.	
Ingestion: Harmful if ingested.	
Effects include: No other effects expected unless listed below.	

#### SECTION 4 - FIRST AID MEASURES:

S	kin Contact: Wash with soap and water.
lf	discomfort or irritation persists, consult a physician.
R	emove contaminated clothing and wash before reuse.
E	ye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open.
G	te immediate medical attention.
In	ngestion: Do not induce vomiting.
N	ever give anything by mouth to an unconscious person.
С	all a physician.
	ilute with weak vinegar solution or a 5% solution of ammonia chloride if available. If not, dilute with large quantities f water.
	halation: If symptoms develop, get fresh air. If symptoms persist, consult a physician.
	breathing has stopped, give artificial respiration then oxygen if needed.

### SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not Flammable
Flash Point Method:	Not Applicable
Lower Explosion Limit:	Not Available

### MSDS Date: 06/13/2007

Upper Explosion Limit: Not Available Auto-Ignition Temperature: Not Available

2

0

0

### NFPA Rating:

Health: Flammability: Reactivity:

eactivity:

Extinguishing Media: In case of fire, use water spray, dry chemical, Carbon dioxide or foam. Special Fire Fighting Procedures: None Unusual Fire and Explosion Hazards: Keep all SODASORB® LF that has been used with highly flammable anesthetics away from heat. sparks. and open flames. as residual amounts of these materials will be present.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Spills/Leaks: Carefully shovel or sweep up spilled material and place in suitable container for disposal, do not use material in anesthesia circuit.

### SECTION 7 - HANDLING AND STORAGE

Precautionary Measures: Do not leave SODASORB® LF exposed to air for extended periods of time, since this will cause moisture loss and reduce CO2 absorption performance. Avoid contact with eyes, skin and clothing. Do not take internally. Avoid creating airborne dust, especially when pouring or handling loose material. Keep from freezing, which may reduce CO2 absorption performance and increase fines. SODASORB® LF that has been frozen should be completely thawed before use. Wear gloves and eye protection when handling SODASORB® LF. Wear a dust mask, if necessary. Keep all SODASORB® LF that has been used with highly flammable anesthetics away from heat, sparks, and open flames, as residual amounts of these materials will be present. Do not subject SODASORB® LF to high fresh gas flow rates for extended periods of time since this will cause moisture loss from the absorbent. Replace dry SODASORB® LF with fresh absorbent if high fresh gas flow rates have been left on for an extended period of time when the anesthesia machine has not been in use. Avoid prolonged storage under direct ultraviolet light since this depletes dye contained in Indicator SODASORB® LF.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

EXPOSURE GUIDELINES (US)							
Ingredient	ACGIH TLV		OSHA PEL				
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	Substance Specific and Mineral Dust PELs
Calcium hydroxide	5 mg/m3 TWA	-	-	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	-	-	-
Sodium hydroxide	-	-	2 mg/m3 Ceiling	2 mg/m3 TWA -	-	-	-

### EXPOSURE GUIDELINES (CANADA)

sparks, and open flames, as residual amounts of these materials will be present.

Keep all SODASORB® LF that has been used with highly flammable anesthetics away from heat,

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

Engineering Controls:

# Personal Protective Equipment:

Respiratory Protection: Wear approved respiratory protection to prevent employee exposure from exceeding the limits specified.

Skin Protection: Rubber or other impervious gloves should be worn to prevent skin contact.

Eye Protection: Safety goggles should be worn to prevent eye contact.

Work/Hygienic Practices: Use good personal hygiene practices.

### Product Name: SODASORB® LF MSDS ID Number: C-00671

### W. R. GRACE MATERIAL SAFETY DATA SHEET

### MSDS Date: 06/13/2007

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance/Odor:	White to blue-white odorless granules
Odor Threshold: (ppm)	Not Determined
pH:	Not Applicable
Vapor Pressure: (Mm Hg)	Not Applicable
Vapor Density: (Air = 1)	Not Applicable
Solubility In Water: (%w/w)	Slight
Specific Gravity: (Water = 1)	Not Applicable
Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable
Freezing Point:	32° F (0°C)
Melting Point:	Not Applicable
Density: (g/ml)	Not Applicable
Volatiles (including water) % by Weight:	< 14% as moisture loss
O/W Partition Coefficient:	Not Determined
Volatile Organic Content: (lb/gal less water)	Not Applicable
Volatile Organic Content: (kg/l less water)	Not Applicable

### SECTION 10 - STABILITY AND REACTIVITY **Chemical Stability:** Conditions To Avoid:

Chemical Stability:	Stable
Conditions To Avoid:	None known for this product.
Hazardous Polymerization:	Will not polymerize.
Hazardous Decomposition	None known for this product. May react with chloroform slightly, producing
Products:	sodium formate, carbon monoxide and phosgene. May react with
	trichloroethylene, producing dichloroacetylene, carbon monoxide and
	phosgene.

SECTION 11 - TOXICOLOGICAL INF		
Ingredient(No data unless listed.)	CAS Number	LD50 and LC50
Calcium hydroxide	001305-62-0	Oral LD50 Rat: 7340 mg/kg
Sodium hydroxide	001310-73-2	Dermal LD50 Rabbit: 1350 m

Rabbit: 1350 mg/kg

SODASORB was determined to be non-corrosive using the InVitro International CORROSITEX test protocol to determine corrositivity.

### Carcinogenicity:

Ingredient	IARC Group	IARC	IARC	NTP	NTP	OSHA	İ
-	1	Group 2A	Group 2B	Known	Suspect		ĺ
Calcium hydroxide	No	No	No	No	No	No	ĺ
							۰.

Mutagenicity:	Not applicable.
Teratogenicity:	Not applicable.
Reproductive Toxicity:	Not applicable.

### SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate:	No data available for product.
Ecotoxicity:	No data available for product.

### SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Procedures:

Unused Sodasorb is not a hazardous waste as defined in the United States 40 Code of Federal Regulations Section 261.3. Disposal of used Sodasorb must be determined by the end user in compliance with federal, state, provincial, and local regulations. Review State Hazardous Waste Regulations, as some states classify this product as a corrosive waste. Specific disposal methods vary with the chemical (e.g., anesthetic agents, acid-based vapors, etc.) or biological agents used with the absorbent by the end user.

### **SECTION 14 - TRANSPORTATION INFORMATION**

Proper Shipping Name:	Not Applicable
UN/NA Number:	Not Applicable
Domestic Hazard Class:	Nonhazardous
Surface Freight Classification:	Compounds, Gas Absorbing
Label/Placard Required:	Not Applicable

**SECTION 15 - REGULATORY INFORMATION** 

#### **REGULATORY CHEMICAL LISTS:**

CERCLA	Compr	ahansiva F	esponse Compensat	ion and Liability	Act):		
		less listed			Actj.		
Chemica		CAS #	below)	Wt %	C	ERCLA RQ	
<u>enemie</u>	<u>ai itainie</u>	<u>orto "</u>		<u></u>		LICEARC	
SARA TI	itle III (Su	perfund A	mendments and Reau	uthorization Act)			
			Hazard Categories:	<u></u>			
		n Immediat					
		Delayed (					
	Flamr		Ňo				
	React	ive	No				
	Press	ure	No				
302 Ren	ortable Ir	aredients	(Identification Thres)	old 1%)			
Chemica		CAS #	Indentification Three	Wt %	s	ARA 302 TPQ	
onennet	ai itaine	0/10 //		<u>III /0</u>	<u>~</u>	AIGA COL II G	
313 Rep	ortable Ir	aredients	(Chemicals present I	pelow reporting t	hreshold are ex	(empt):	
Chemica		CAS #		Wt %			
WHMIS	Classifica	ation(s):	D2 B				
			ied in accordance with		a of the Controlle	ed Products Regi	ulations (CPR). This
MSDS co	ontains all	the inform	ation required by the C	PR.			
State Re	gulatory	Informatio	n:				
Californ	ia Propos	sition 65:	WARNING! This p				alifornia to
			cause cancer, birth	defects or other r	eproductive harr	n.	
			Substance List(Identi		d 0.0001%(1ppi	<u>m)):</u>	
Chemica	al Name	CAS #		<u>Wt %</u>			
					(0)		
			stance List(Identifica		.1%)):		
<u>Chemica</u>	al Name	<u>CAS #</u>		<u>Wt %</u>			
<b>D</b>					0.040()		
			ubstance List(Identifie		0.01%):		
<u>Chemica</u>	al Name	<u>CAS #</u>		<u>Wt %</u>			
CHEMIC			ATUR				
		NTORY ST	ATUS: ct are listed or exemp	t from licting in t	he following or	untriaci	
US			EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AUSTRALIA	ENCS	ECL	PHILIPPINES
	-	-				-	Not
Yes	Yes	No	Yes	Yes	Not Determined	Not Determined	Not Determined
L	L			l	Determined	Determined	Determined

### **SECTION 16 – OTHER INFORMATION**

#### Non-Hazardous Ingredient Disclosure:

Cher	nical Name	CAS Number
Wate	er	007732-18-5
Calci	um Chloride	010043-52-4
Prepared by:	EH&S Der	partment

Approved by: EH&S Department Approved Date: 06/13/2007

### Disclaimer:

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."



# Safety Data Sheet

acc. to OSHA HCS

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# **1** Identification

- · Product identifier
- · Trade name: <u>SODASORB® LF</u>
- Application of the substance / the preparation: Intermediate product of varied applicability in industry and trade.
- $\cdot$  Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Henkel Corporation One Henkel Way Rocky Hill CT 06037 USA Tel: +1-800-571-5100 Fax: +1-860-571-5465

- · Information department: sds.darex@henkel.com
- Emergency telephone number: Chemtrec +1-800-424-9300 (24 hours)

# 2 Hazard(s) identification

· Classification of the substance or mixture

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

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). **Hazard pictograms** 



· Signal word Danger

 Hazard-determining components of labeling: calcium hydroxide

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# Trade name: SODASORB® LF

	(Contd. of page 1)
<ul> <li>Hazard statement</li> </ul>	S
Causes skin irritati	••••
Causes serious ey	
May cause respira	
<ul> <li>Precautionary statements</li> </ul>	
	st/fume/gas/mist/vapors/spray
	oves / eye protection / face protection.
	ove person to fresh air and keep comfortable for breathing.
	autiously with water for several minutes. Remove contact lenses, if present and
easy to do. Contin	
	POISON CENTER/doctor. tilated place. Keep container tightly closed.
Store locked up.	
	s/container in accordance with local/regional/national/international regulations.
· Classification sys	
-	
<ul> <li>NFPA ratings (sc</li> </ul>	ale U - 4)
Healt	h = 3
Fire =	
	tivity = 0
	,
· HMIS-ratings (sca	ale 0 - 4)
HEALTH *3 Hea	lth = *3
FIRE 0 Fire	
	= 0 ctivity $= 0$
	Suvity – C

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture: consisting of the following components.

<ul> <li>List of Dang</li> </ul>	gerous Components	
	calcium hydroxide	50-100%
	🚸 Eye Dam. 1, H318; 🐠 Skin Irrit. 2, H315; STOT SE 3, H335	
	calcium chloride	1-3%
	🚯 Eye Irrit. 2A, H319	
	sodium hydroxide	0.1-1%
	♦ Met. Corr.1, H290; Skin Corr. 1A, H314	

# **4** First-aid measures

# · Description of first aid measures

· After inhalation:

In case of unconsciousness place patient stably in the recovery position for transportation.

- After skin contact: Immediately flush skin with water for at least 15 minutes.
- · After eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Then consult a doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• Indication of any immediate medical attention and special treatment needed No further relevant information available.

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# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information available.
- Hazardous combustion products Carbon monoxide and carbon dioxide
- Advice for firefighters
- · Protective equipment: Do not inhale explosion gases or combustion gases.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Methods and material for containment and cleaning up: Use neutralizing agent.
   Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- 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

- · Handling:
- Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Use only receptacles specifically permitted for this substance/product.
- · Further information about storage conditions: None.

# 8 Exposure controls/personal protection

· 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.

# 1305-62-0 calcium hydroxide

- PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>
- \*total dust \*\*respirable fraction
- REL Long-term value: 5 mg/m<sup>3</sup>
- TLV Long-term value: 5 mg/m<sup>3</sup>

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Control parameters

· pH-value:

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1310-73-2 sodium hydroxide	(Contd. of page
PEL Long-term value: 2 mg/m <sup>3</sup>	
REL Ceiling limit value: 2 mg/m	3
TLV Ceiling limit value: 2 mg/m	3
Exposure controls	ists at time of creation were used as basis. <b>rols</b> No further relevant information available. <b>ht:</b>
• General protective and hygien Keep away from foodstuffs, bevo Immediately remove all soiled an Wash hands before breaks and Avoid contact with the skin. Prevent contact with the eyes an	erages and feed. nd contaminated clothing. at the end of work.
respirator that is independent of NIOSH approved respirator and	spiratory filter device. In case of intensive or longer exposure use circulating air. As appropriate for the employee exposure, use a cartridge.
Protection of hands:	
Protective gloves	
The glove material has to be impreparation.	each use for their proper condition. permeable and resistant to the product/ the substance/ the on consideration of the penetration times, rates of diffusion and th
of quality and varies from manuf	
Eye protection:	
Tightly sealed goggles	S
	roperties
Physical and chemical p	
<ul> <li>Information on basic physical</li> <li>General Information</li> </ul>	-
<ul> <li>Information on basic physical</li> <li>General Information</li> <li>Appearance: Form:</li> </ul>	and chemical properties Pellets
Information on basic physical General Information Appearance:	and chemical properties

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Not applicable.

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	(Contd. o
Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range: Conditions of flammability	Not determined.
Flash point:	Not available.
Flammability (solid, gaseous): Ignition temperature:	Not determined.
Decomposition temperature:	Not available.
Auto igniting:	Product is not self-igniting.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	Not determined.
Upper: Evaluation data consistivity to machanic	Not determined.
Explosion data - sensitivity to mechanio 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.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0%
Water:	13.6%
Other information	No further relevant information available.

# 10 Stability and reactivity

- Reactivity No further relevant information available.
- · Chemical stability No decomposition if used according to specifications.
- · Possibility of hazardous reactions
- May react with trichloroethylene, producing dichloracetylene, carbon monoxide and phosgene. • Conditions to avoid
- In case of thermal decomposition caused by smouldering and incomplete combustion toxic fumes may be developed.
- Incompatible materials: Protect from contamination.
- Hazardous decomposition products: No dangerous decomposition products known.

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Trade name: SODASORB® LF

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# 11 Toxicological information · 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: · LD/LC50 values that are relevant for classification: 1305-62-0 calcium hydroxide LD50 >2,000 mg/kg (rat) (OECD 425) Oral 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) >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 · 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. (Contd. on page 7)

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# · 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 (carcinogenity, 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.

# **12 Ecological information**

· Toxicity

· Aquatic toxicity: No further relevant information available.

· Fish toxicity	,	
1305-62-0 ca	alcium hydroxide	
	160 mg/l (Gambusia affinis) IUCLID Dataset 18-Feb-2000	
	50.6 mg/l (Oncorhynchus mykiss) ECHA 2011	
10043-52-4 0	alcium 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 so	odium hydroxide	
LC50 (48h)	189 mg/l (Leuciscus idus) IUCLID Dataset (18/Feb/2000)	
· Water flea to	oxicity	
1305-62-0 ca	alcium hydroxide	
EC50 (48 h)	49.1 mg/l (Daphnia magna) (OECD 202) ECHA 2011	
<u> </u>		(Contd. on page 8)
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		(Contd. of page 7)
10043-52-4 c	alcium 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 so	dium hydroxide	
EC50 (48 h)	100 mg/l (Daphnia magna) IUCLID Dataset 18-Feb-2000	
· Algae toxicit	y	
1305-62-0 ca	cium hydroxide	
EC10 (72 h)	79.22 mg/l (Pseudokirchneriella subcapitata) (OECD 201) crangon septemspinosa	
10043-52-4 c	alcium 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)	
· Persistence	and degradability No further relevant information available.	

· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· Additional ecological information:

· 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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

# 13 Disposal considerations

- **Disposal methods** Comply with Federal, State, and local regulations.
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Not applicable.	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Not applicable.	

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# Trade name: SODASORB® LF

	(Contd. of page
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not applicable.
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Not applicable.
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: -
· ADR · Remarks:	Contains <4% Sodium Hydroxide, see Special Provision 62
· IMDG	
· Remarks:	Contains <4% Sodium Hydroxide, see Special Provision 62
·IATA	
· Remarks:	Contains <4% Sodium Hydroxide, see Special Provision A16

# 15 Regulatory information

- · 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.
- · Proposition 65
- · Chemicals known to cause cancer:
- 50-00-0 formaldehyde
- · 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.

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# Safety Data Sheet acc. to OSHA HCS

Printing date 02/07/2018

Version: 4.0

Reviewed on 02/07/2018

Trade name: SODASORB® LF

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· Chemicals known to cause	e developmental toxicity:
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None of the ingredients is listed.

### · 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.

### · 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.

### · Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

### · Department issuing SDS: Product Safety and Regulatory Affairs Group

### · 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.

 $\cdot$  Date of preparation / last revision 02/07/2018 / 3.9

The first date of preparation 02/28/2017

Number of revision times and the latest revision date 4.0 / 02/07/2018

### · 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

USA