

**Safety Data Sheet**
acc. to OSHA HCS

Printing date 02/07/2018

Version: 4.0

Reviewed on 02/07/2018

1 Identification

- **Product identifier**
- **Trade name: SODASORB® LF**
- **Application of the substance / the preparation:**
Intermediate product of varied applicability in industry and trade.
- **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**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
calcium hydroxide

(Contd. on page 2)

Trade name: **SODASORB® LF**

(Contd. of page 1)

Hazard statements

- Causes skin irritation.
- Causes serious eye damage.
- May cause respiratory irritation.

Precautionary statements

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves / eye protection / face protection.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER/doctor.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3
Fire = 0
Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

List of Dangerous Components

1305-62-0	calcium hydroxide ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	50-100%
10043-52-4	calcium chloride ⚠ Eye Irrit. 2A, H319	1-3%
1310-73-2	sodium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314	0.1-1%

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.

(Contd. on page 3)

Trade name: **SODASORB® LF**

(Contd. of page 2)

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

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

- **Control parameters**
- **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 ³ *total dust **respirable fraction
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³

(Contd. on page 4)

Trade name: **SODASORB® LF**

(Contd. of page 3)

1310-73-2 sodium hydroxide

PEL	Long-term value: 2 mg/m ³
REL	Ceiling limit value: 2 mg/m ³
TLV	Ceiling limit value: 2 mg/m ³

- **Additional information:** Valid lists at time of creation were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further relevant information available.
- **Personal protective equipment:**

- **General protective and hygienic measures:**
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.

- **Breathing equipment:**
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.

- **Protection of hands:**



Protective gloves

Check protective gloves prior to each use for their proper condition.
The glove material has to 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 can not 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

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Pellets
Color:	Whitish

- **Odor:** Characteristic

- **pH-value:** Not applicable.

(Contd. on page 5)

Trade name: **SODASORB® LF**

(Contd. of page 4)

· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· Conditions of flammability	
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:	
Product does not present an explosion hazard.	
· Explosion limits:	
Lower:	Not determined.
Upper:	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.
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 dichloroacetylene, 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.

USA

(Contd. on page 6)

Trade name: **SODASORB® LF**

(Contd. of page 5)

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

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) >5,000 mg/kg (rabbit) ECHA 2011

1310-73-2 sodium hydroxide

Dermal	LD50	1,350 mg/kg (rabbit) IUCLID Dataset 18-Feb-2000
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- Primary irritant effect:

- on the skin:

Irritation of skin	IS	>60 (in-vitro) (OECD 425) comp. product GRACE
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1305-62-0 calcium hydroxide

Irritation of skin	IS	(rabbit) (OECD 404) ECHA 2011
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10043-52-4 calcium chloride

Irritation of skin	IS	(rabbit) (OECD 404) ECHA 2011
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1310-73-2 sodium hydroxide

Irritation of skin	IS	5.6 (rabbit) (§ 1500.41 in Federal Register Vol. 38, No. 187) ECHA 2014
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- on the eye:

1305-62-0 calcium hydroxide

Irritation of eyes	IS	(rabbit) (OECD 405) ECHA 2011
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10043-52-4 calcium chloride

Irritation of eyes	IS	(rabbit) (OECD 405) ECHA 2011
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1310-73-2 sodium hydroxide

Irritation of eyes	IS	>2.25 (rabbit) (OECD 405) ECHA 2014
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- Respiratory sensitization No further relevant information available.

(Contd. on page 7)

Trade name: **SODASORB® LF**

(Contd. of page 6)

· **Skin sensitization**

1310-73-2 sodium hydroxide

Sensitization	SI	0 (human being) ECHA 2014
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· **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
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· **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 calcium hydroxide

LC50 (96 h)	160 mg/l (Gambusia affinis) IUCLID Dataset 18-Feb-2000 50.6 mg/l (Oncorhynchus mykiss) ECHA 2011
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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
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1310-73-2 sodium hydroxide

LC50 (48h)	189 mg/l (Leuciscus idus) IUCLID Dataset (18/Feb/2000)
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· **Water flea toxicity**

1305-62-0 calcium hydroxide

EC50 (48 h)	49.1 mg/l (Daphnia magna) (OECD 202) ECHA 2011
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(Contd. on page 8)

Trade name: **SODASORB® LF**

(Contd. of page 7)

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
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· **Algae toxicity**

1305-62-0 calcium hydroxide

EC10 (72 h)	79.22 mg/l (Pseudokirchneriella subcapitata) (OECD 201) crangon septemspinosa
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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)

- **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.

14 Transport information

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

(Contd. on page 9)

Trade name: **SODASORB® LF**

(Contd. of page 8)

<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class 	Not applicable.
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	Not applicable.
<ul style="list-style-type: none"> · Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations 	On passenger aircraft/rail: -
<ul style="list-style-type: none"> · ADR · Remarks: 	Contains <4% Sodium Hydroxide, see Special Provision 62
<ul style="list-style-type: none"> · IMDG · Remarks: 	Contains <4% Sodium Hydroxide, see Special Provision 62
<ul style="list-style-type: none"> · IATA · Remarks: 	Contains <4% Sodium Hydroxide, see Special Provision A16

15 Regulatory information

<ul style="list-style-type: none"> · Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA 	
<ul style="list-style-type: none"> · SARA 302/304 	None of the ingredients is listed.
<ul style="list-style-type: none"> · SARA 313 	None of the ingredients is listed.
<ul style="list-style-type: none"> · 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)
<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act): 	Inventory listing could not be confirmed for one or more substances.
<ul style="list-style-type: none"> · Proposition 65 	
<ul style="list-style-type: none"> · Chemicals known to cause cancer: 	50-00-0 formaldehyde
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females: 	None of the ingredients is listed.
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males: 	None of the ingredients is listed.

(Contd. on page 10)

Trade name: **SODASORB® LF**

(Contd. of page 9)

· **Chemicals known to cause developmental toxicity:**

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.

· **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