





SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: SODASORB® WISL 16% 4/8**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU20 Health services
- **Product category** PC3 Air care products
- **Process category**
 - PROC1 Use in closed process, no likelihood of exposure
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- **Environmental release category** ERC7 Industrial use of substances in closed systems
- **Article category** Not applicable.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - Alltech Associates, Inc.
 - Brandstraat 12
 - B-9160 Lokeren
 - BELGIUM
 - Tel: +32(0)9-340-6565
 - Fax: +32(0)9-340-6560
- **Further information obtainable from:**
 - Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH.
 - MSDS.Davison@grace.com
- **1.4 Emergency telephone number:** Tel.: +49 (0)172 7129276

SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
- 
 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.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- 
 C; Corrosive
 R34: Causes burns.
- 
 Xi; Irritant
 R37: Irritating to respiratory system.
- **Information concerning particular hazards for human and environment:**
 - The product has been labelled according to EU guidelines.
- **Classification system:**
 - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
calcium hydroxide
sodium hydroxide
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
- **Precautionary statements**
P261 Avoid breathing mist/vapours/spray.
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/doctor.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Information concerning particular hazards for human and environment:**
- **Safety phrases:**
36 Wear suitable protective clothing.
37 Wear suitable gloves.
60 This material and its container must be disposed of as hazardous waste.
36/37 Wear suitable protective clothing and gloves.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
29 Do not empty into drains.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with non-hazardous additions.

- **Dangerous components:**

CAS: 1305-62-0 EINECS: 215-137-3	calcium hydroxide Xi R37/38-41 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	70-90%
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 02-2119512664-42-0000	sodium hydroxide C R35 Met. Corr.1, H290; Skin Corr. 1A, H314	< 4%

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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **After inhalation:**
In case of unconsciousness place patient stably in the recovery position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear personal protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

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- **Further information about storage conditions:**
Protect from frost.
Store in dry conditions.
- **7.3 Specific end use(s)** Not applicable.

SECTION 8: Exposure controls/personal protection

· Ingredients with limit values that require monitoring at the workplace:

1305-62-0 calcium hydroxide

TWA TOTAL INHALABLE DUST (GB)	Short-term value: -- mg/m ³ , -- ppm Long-term value: 5 mg/m ³ , -- ppm EH40/2001: ILV
WEL (Great Britain)	Long-term value: 5 mg/m ³
IOELV (European Union)	Long-term value: 5 mg/m ³

1310-73-2 sodium hydroxide

WEL (Great Britain)	Short-term value: 2 mg/m ³
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· DNELs

1305-62-0 calcium hydroxide

Inhalative	DNEL(acute-local)	4 mg/m ³ (General population) ECHA 2011 4 mg/m ³ (Worker) ECHA 2011
	DNEL(long-local)	1 mg/m ³ (General population) ECHA 2011 1 mg/m ³ (Worker) ECHA 2011

1310-73-2 sodium hydroxide

Inhalative	DNEL(long-local)	1 mg/m ³ (General population) ECHA 2014 1 mg/m ³ (Worker) ECHA 2014
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· PNECs

1305-62-0 calcium hydroxide

PNEC	0.49 mg/l (aqua-freshwater) ECHA 2011 0.49 mg/l (aqua-intermittent releases) ECHA 2011 0.32 mg/l (aqua-marine water) ECHA 2011 1080 mg/kg (soil) ECHA 2011 3 mg/l (Sewage Treatment Plant) ECHA 2011
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- **Additional information:** Based on lists valid at date of MSDS creation.
- **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.

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Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Respiratory protection in case of dust.

· **Recommended filter device for short term use:** Filter P1

· **Protection of hands:**



Protective gloves.

Check the condition of the gloves prior to each use.
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.
Preventive skin protection by use of skin-protecting agents is recommended.

· **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

PVC gloves

· **Penetration time of glove material**

EN 420: Minimum requirements for efficiency level 1 for all groups.

The exact break through time has to be obtained from the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 30-60 minutes (Permeation according to EN 374 Part 3: Level 2).

· **For the permanent contact gloves made of the following materials are suitable:** PVC gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Pellets

Colour: Whitish

· **Odour:** Characteristic

· **pH-value:** Not applicable.

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· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not applicable.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Not available.
· Decomposition temperature:	Not applicable.
· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	- Vol %
Upper:	- Vol %
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **Chemical stability** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **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.

SECTION 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 relevant for classification:**

1305-62-0 calcium hydroxide

Oral	LD50	>2000 mg/kg (rat) (OECD 425) ECHA 2011
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Dermal	LD50	>2500 mg/kg (rabbit) (OECD 402) ECHA 2011
1310-73-2 sodium hydroxide		
Dermal	LD50	1350 mg/kg (rabbit) IUCLID Dataset 18-Feb-2000

- **Primary irritant effect:**
- **on the skin:**
Irritant to skin and mucous membranes.

1305-62-0 calcium hydroxide		
Skin	IS	irritating (rabbit) (OECD 404) ECHA 2011
1310-73-2 sodium hydroxide		
Skin	IS	5.6 (rabbit) (§ 1500.41 in Federal Register Vol. 38, No. 187) ECHA 2014

- **on the eye:**
Strong irritant with the danger of severe eye injury.

1305-62-0 calcium hydroxide		
Eye	IS	irritating (rabbit) (OECD 405) ECHA 2011
1310-73-2 sodium hydroxide		
Eye	IS	>2.25 (rabbit) (OECD 405) ECHA 2014

- **Respiratory sensitisation** No further relevant information available.

- **Skin sensitisation**

1310-73-2 sodium hydroxide		
Sensitisation	SI	0 (human being) not sensitizing Echa 2014

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Carcinogenicity** No further relevant information available.

- **Mutagenicity**

1310-73-2 sodium hydroxide		
AMES Test		negative mg/plate (Salmonella typhimurium) 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.

SECTION 12: Ecological information

- **Toxicity**
- **Aquatic toxicity:**

Fish toxicity		
1305-62-0 calcium hydroxide		
LC50 (96 h)		160 mg/l (Gambusia affinis) IUCLID Dataset 18-Feb-2000

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	50.6 mg/l (Oncorhynchus mykiss) ECHA 2011
1310-73-2 sodium hydroxide	
LC50 (48h)	189 mg/l (Leuciscus idus) IUCLID Dataset (18/Feb/2000)
LC50 (96 h)	125 mg/l (Gambusia affinis) MSDS Merck 2014
· Water flea toxicity	
1305-62-0 calcium hydroxide	
EC50 (48 h)	49.1 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
· Bacterial toxicity	
1310-73-2 sodium hydroxide	
EC50 (15 min)	22 mg/l (Photobacterium phosphoreum) MSDS Merck 2014

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**
The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	None
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	None
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	None
· 14.4 Packing group	
· ADR, IMDG, IATA	None
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
· Transport/Additional information:	
· IATA	
· Remarks:	GRACE recommends CARGO AIRCRAFT only.

SECTION 15: Regulatory information

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
calcium hydroxide
sodium hydroxide
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
- **Precautionary statements**
P261 Avoid breathing mist/vapours/spray.
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/doctor.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **National regulations:**
- **Waterhazard class:** WGK1 (VwVwS Annex 4 of 30.07.2005): slightly hazardous

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Trade name: SODASORB® WISL 16% 4/8

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- **Registered in the international inventory lists:**
 - EINECS/REACH (Europe)
 - TSCA (USA)
 - IECSC (China)
 - DSL (Canada)
 - AICS (Australia)
 - PICCS (Philippines)
 - ENCS (Japan)
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.
- H335 May cause respiratory irritation.
- R35 Causes severe burns.
- R37/38 Irritating to respiratory system and skin.
- R41 Risk of serious damage to eyes.

Department issuing MSDS:

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Trade name: SODASORB® WISL 16% 4/8

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- **Other information:** MADE IN EU
- **The first date of preparation** 08.07.2014
- **Number of revision times and the latest revision date** 3.0 / 12.02.2015

- **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
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
Met. Corr.1: Corrosive to metals, Hazard Category 1
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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