

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078936707

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

078084582 078084608 078084616 078772660 078943015 078943579 078943611 078944104

## Material Safety Data Sheet

Printing date 12/17/2013

Version Number 1.2

Reviewed on 12/17/2013

**1 Identification****Product identifier**Trade name: SODASORB 4-8 IND H MED

MSDS ID Number: 59501-V2.0

**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

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

**Other Country Contact Information:**

For products distributed beyond the country Manufacturer/Supplier identified above  
Consult Section 16 for additional emergency contact information.

www.gracedarex.com**Information department:**

Environmental Health & Safety  
USA: +1-617-876-1400 (24 hours)  
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

**Transport Emergency:** Chemtrec +1-800-424-9300 (24 hours)**2 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** The product is a formulated soda lime supplied as granules.

<b>Hazardous components:</b>		
1305-62-0	Calcium hydroxide	50-100%
1310-73-2	Sodium hydroxide	2.0-5.0%

**Additional information:** Test data shows the preparation to be an irritant (see Section 11).**3 Hazard(s) identification****Classification of the substance or mixture**

The product has to be labeled in accordance with applicable regulations.

**Information concerning hazards for human and environment:**

Irritating to skin.  
Risk of serious damage to eyes.

**Safety phrases:**

When using do not eat or drink.  
Do not breathe dust.

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In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing, gloves and eye/face protection.  
In case of accident or if you feel unwell, seek medical advice immediately.  
See Section 13 for disposal information.

**Hazard description:** Irritant.**Inhalation:** Causes respiratory tract irritation.**Eye Contact:** Causes serious eye damage.**Skin Contact:** Harmful in contact with skin and if swallowed.**Skin Absorption:** Not expected to be harmful if absorbed through the skin.**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

**4 First-aid measures****After inhalation:**

Take affected persons into fresh air and keep quiet.

Seek immediate medical advice.

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

**After skin contact:**

Take off immediately all contaminated clothing. Wash with soap and water.

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

Seek immediate medical advice.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

**After swallowing:**

Do not induce vomiting; immediately call for medical help.

Wash out mouth with water.

Never give anything by mouth to an unconscious person.

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**5 Fire-fighting measures****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture** No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the MSDS.

**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**

Risk of serious damage to eyes.

Open and handle receptacle with care.

Prevent formation of dust.

Store in original containers.

Do not breathe dust.

**Information about protection against explosions and fires:**

Empty containers may retain hazardous residue, both liquid and vapor.

**Storage:****Information about storage in one common storage facility:** Store away from water.

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**Further information about storage conditions:**

Store only in original containers in a dry, well ventilated area.

Keep receptacle tightly sealed.

Protect from exposure to the light.

**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:****1305-62-0 Calcium hydroxide**

PEL	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	5 mg/m <sup>3</sup>
TLV	5 mg/m <sup>3</sup>

**1310-73-2 Sodium hydroxide**

PEL	2 mg/m <sup>3</sup>
REL	Short-term value: C 2 mg/m <sup>3</sup>
TLV	Short-term value: C 2 mg/m <sup>3</sup>

**Additional information:** The lists that were valid during the creation were used as basis.**Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not breathe dust.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Eye protection:**

Safety glasses with side shield protection.

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A face shield should also be worn if there is potential exposure to splash or spray.

**Body protection:** Protective work clothing

## 9 Physical and chemical properties

### General Information

**Appearance:**

<b>Form:</b>	Off-white pellets.
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value (~):** Not applicable.

**Change in condition**

**Melting point/Melting range:** Undetermined.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not determined.

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>VOC Content (max):</b>	Not determined.

**Vapor pressure:** Not applicable.

**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.

**Other information**

No further relevant information available.

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**10 Stability and reactivity****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions**

May react with trichloroethylene, producing dichloroacetylene, carbon monoxide and phosgene.

**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** None.**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****1305-62-0 Calcium hydroxide**

Dermal | LD50 | 7340 mg/kg (rat)

**1310-73-2 Sodium hydroxide**

Dermal | LD50 | 2000 mg/kg (rat)

**Primary irritant effect:****on the skin:**

Caustic effect on skin and mucous membranes.

Causes burns.

**on the eye:**

Strong irritant with the danger of severe eye injury.

Strong irritant with the danger of severe eye injury.

**Additional Toxicological Information:**

Toxicity (skin irritation) :Irritant

May cause respiratory irritation.

**IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients is listed.

**NTP (National Toxicology Program)****K-Known to be carcinogenic, R-May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

**12 Ecological information****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.

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Trade name: **SODASORB 4-8 IND H MED**

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**Behavior in environmental systems:****Bioaccumulative potential** Does not accumulate in organisms**Additional ecological information:****General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Slightly hazardous for water

**13 Disposal considerations****Waste treatment methods**Comply with Federal, State and local regulations.  
Waste product is not defined as hazardous by US EPA.**Uncleaned packagings:****Recommendation:**

Disposal must be made according to official regulations.

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

**14 Transport information****UN-Number**

DOT, ADR, IMDG, IATA Not applicable.

**UN proper shipping name**

DOT, ADR, IMDG, IATA Not applicable.

**Transport hazard class(es)**

DOT, ADR, IMDG, IATA

Class Not applicable.

ADN/R Class: Not applicable.

-

**Packing group**

DOT, ADR, IMDG, IATA Not applicable.

**Environmental hazards:**

Marine pollutant: No

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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**Transport/Additional information:****DOT****Remarks:** Not Regulated.**ADR****Remarks:** Not Regulated.**IMDG****Remarks:** Not Regulated.**IATA****Remarks:** Not Regulated.**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

None of the ingredients is listed.

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	Yes
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**California 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.

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Trade name: **SODASORB 4-8 IND H MED**

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**WHMIS Classification(s):**

D2B - Toxic material causing other toxic effects

**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Cancer (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Volatile Organic Compounds (VOC) reported per the Emission Standards for Architectural Coatings:**

If no g/L value is provided this product is not subject to above standard.

**European EINECS**

Inventory listing could not be confirmed for one or more substances.

**Philippines Inventory of Chemicals and Chemical Substances PICCS**

Inventory listing could not be confirmed for one or more substances.

**Inventory of Existing Chemical Substances manufactured or imported in China IECSC**

Inventory listing could not be confirmed for one or more substances.

**Australian Inventory of Chemical Substances AICS**

Inventory listing could not be confirmed for one or more substances.

**Japan Existing and New Chemical Substance List ENCS**

Inventory listing could not be confirmed for one or more substances.

**Korean Existing Chemical Inventory**

Inventory listing could not be confirmed for one or more substances.

**Non-hazardous Ingredients**

7732-18-5 | Water

**16 Other information**

"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."

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**Department issuing MSDS:****Other Information:**

In the previous MSDS, version control was by Issue Number and Date. With the change to automated MSDS creation software, version control is now based on printing and review dates which appear at the top of each page. Also consequent on this change, amendments have been made in all Sections of this MSDS. In future updates to MSDS, amended sections will be indicated by an asterisk (\*) in the left-hand margin.

**The first date of preparation** 05/30/2012**Number of revision times and the latest revision date** 2.2 / 12/17/2013**Sources**

Raw material suppliers' safety data sheets were used as key data sources in the preparation of this safety data sheet.

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**DAREX<sup>®</sup>**

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

# SAFETY DATA SHEET

EMERGENCY PHONE NO. (617) 876-1400

Rev. 1, Ver. 15

## SECTION I - IDENTIFICATION

**PRODUCT (TRADE) NAME:** SODASORB<sup>®</sup> Absorbent

**General Chemical Description:** Alkaline carbon dioxide absorbent

**NOTE:** This MSDS covers the following non-medical grades of SODASORB<sup>®</sup>:

- SODASORB<sup>®</sup> 4-8 IND H
- SODASORB<sup>®</sup> 4-8 IND HP
- SODASORB<sup>®</sup> 4-8 REG HP
- SODASORB<sup>®</sup> 4-8 REG L
- SODASORB<sup>®</sup> 6-12 IND L

## SECTION II - INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% by Weight</u>	<u>OSHA PEL*</u>	<u>ACGIH TLV**</u> Maximum Exposure Value (ppm) (8 hour time-weighted average)
calcium hydroxide [CAS#1305-62-0]	above 80	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
potassium hydroxide [CAS#1310-58-3]	below 3	2 mg/m <sup>3</sup> (ceiling)	2 mg/m <sup>3</sup> (ceiling)
sodium hydroxide [CAS#1310-73-2]	below 2	2 mg/m <sup>3</sup> (ceiling)	2 mg/m <sup>3</sup> (ceiling)

\* 29 CFR Section 1910.1000, July 1, 1992

\*\* 1999 recommendation, American Conference of Governmental Industrial Hygienists

### Other Ingredients

pH indicator (IND grades only)

### % by Weight

below 1

PRINT DATE 06/12/02

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We hope the information give herein will be helpful. It is based on our best knowledge and we believe it to be true and accurate. Please read all statements. Recommendations or suggestions herein in conjunction with our conditions of sale which apply to all goods supply by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.



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# SAFETY DATA SHEET

SODASORB® Absorbent

## SECTION III - PHYSICAL DATA

Solubility in Water: Slightly soluble

Specific Gravity (water=1): Approx. 2

Appearance: White to off-white granules

Odor: No odor

Volatiles (% by weight): 0 - 19 as moisture loss

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Non-flammable (See Section VIII.)

## SECTION V - REACTIVITY DATA

Product is stable; hazardous polymerization will not occur.

Will react (be neutralized) with acids. May react with chloroform slightly, producing sodium formate, carbon monoxide, and phosgene. May react with trichloroethylene, producing dichloroacetylene, carbon monoxide, and phosgene.

## SECTION VI - SPILL OR LEAK PROCEDURES

Handling Precautions: See Section VIII.

For Small Spills: Scoop up and place in closed fibre-board or lined metal containers. Rinse area with water. Wash area with soapy water and rinse.

For Large Spills: Scrape or shovel into containers.

Dispose of all product wastes and water rinses in accordance with current local, state, and Federal regulations.

Unused material is not a hazardous waste as defined in 40 CFR Sec. 261.3.



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# SAFETY DATA SHEET

SODASORB® Absorbent

## SECTION VII - HEALTH HAZARD DATA

Threshold Limit Values: See Section II.

	<u>Signs &amp; Symptoms of Acute Exposure</u>	<u>Emergency First Aid Procedures</u>
<u>Inhalation:</u>	Dust can cause irritation and injury to the respiratory system.	Remove to fresh air.
<u>Eyes:</u>	Severe irritation upon contact. Risk of serious damage to eyes.	Immediately flush eyes with water for at least 15 minutes; get medical attention.
<u>Skin:</u>	Irritation upon direct contact.	Wash affected area with water; if irritation occurs and persists, get medical attention. Remove contaminated clothing.
<u>Ingestion:</u>	Harmful if swallowed.	Dilute with weak vinegar solution or a 5% solution of ammonium chloride if these are available. If not, dilute with large quantities of water. Do not induce vomiting. Get medical attention.

CHRONIC EFFECTS: None known.

Medical Conditions Aggravated by Overexposure: Preexisting skin diseases may be aggravated.

GET MEDICAL ATTENTION IF SYMPTOMS PERSIST

## SECTION VIII - SPECIAL PRECAUTIONS

Handling and Storing:

- Keep all SODASORB® that has been used with highly flammable anesthetics away from heat, sparks, and open flames, as residual amounts of these materials will be present.
- Avoid breathing dust.
- Avoid skin and eye contact.
- Keep from freezing; absorption rates may be reduced at temperatures below freezing.
- Freezing of product may increase fines.
- Do not leave SODASORB® exposed to air for extended periods; this will cause moisture loss.
- Avoid prolonged storage under direct ultraviolet light; this depletes dye contained in Indicator SODASORB®.



Revision Number: 001.2

Issue date: 07/09/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>SODASORB® 4-8 IND H MED</b>	<b>IDH number:</b>	2306149
<b>Product type:</b>	CO2-Absorber	<b>Region:</b>	United States
<b>Restriction of Use:</b>	None identified	<b>Contact information:</b>	
<b>Company address:</b>		Telephone: +1 (860) 571-5100	
Henkel Corporation		MEDICAL EMERGENCY Phone: Poison Control Center	
One Henkel Way		1-877-671-4608 (toll free) or 1-303-592-1711	
Rocky Hill, Connecticut 06067		TRANSPORT EMERGENCY Phone: CHEMTREC	
		1-800-424-9300 (toll free) or 1-703-527-3887	
		Internet: www.henkeln.com	

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:** CAUSES SKIN IRRITATION.  
CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1

### PICTOGRAM(S)



### Precautionary Statements

<b>Prevention:</b>	Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. Take off contaminated clothing.
<b>Storage:</b>	Not prescribed
<b>Disposal:</b>	Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Calcium dihydroxide	1305-62-0	60 - 70
Magnesium hydroxide	1309-42-8	1 - 5
Sodium hydroxide	1310-73-2	1 - 5
Quartz (SiO <sub>2</sub> ), <1% respirable	14808-60-7	0.1 - 1

IDH number: 2306149

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Product name: SODASORB® 4-8 IND H MED

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Get immediate medical attention. Do not induce vomiting.
<b>Symptoms:</b>	See Section 11.
<b>Notes to physician:</b>	Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear full protective clothing. Wear self-contained breathing apparatus.
<b>Unusual fire or explosion hazards:</b>	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
<b>Hazardous combustion products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not breathe fumes or dust from this material. For industrial use only. Do not take internally.
<b>Storage:</b>	Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Calcium dihydroxide	5 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Magnesium hydroxide	None	None	None	None
Sodium hydroxide	2 mg/m3 Ceiling	2 mg/m3 PEL	None	None
Quartz (SiO <sub>2</sub> ), <1% respirable	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust.	None	None

**Engineering controls:**

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

**Respiratory protection:**

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:**

Wear chemical goggles; face shield (if splashing is possible).

**Skin protection:**

Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	solid
<b>Color:</b>	Whitish
<b>Odor:</b>	characteristic
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapor pressure:</b>	<= 1100 hPa (50 °C (122°F)) no method
<b>Boiling point/range:</b>	no method Not available.
<b>Melting point/ range:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Flammability:</b>	Not applicable
<b>Evaporation rate:</b>	Not available.
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	None under normal processing. None under normal processing.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
<b>Incompatible materials:</b>	This product may react with strong acids or oxidizing agents.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Keep away from heat, ignition sources and incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

**Potential Health Effects/Symptoms**

<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Skin contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye damage.
<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Calcium dihydroxide	Oral LD50 (Rat) = 7,340 mg/kg	Irritant, Corrosive
Magnesium hydroxide	Oral LD50 (Rat) = 8,500 mg/kg	Gastrointestinal, Irritant
Sodium hydroxide	None	Irritant, Corrosive, Eyes
Quartz (SiO <sub>2</sub> ), <1% respirable	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Calcium dihydroxide	No	No	No
Magnesium hydroxide	No	No	No
Sodium hydroxide	No	No	No
Quartz (SiO <sub>2</sub> ), <1% respirable	Known To Be Human Carcinogen.	Group 1	Yes

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains / surface water / ground water.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

**Prepared by:** Regulatory Affairs

**Issue date:** 07/09/2018

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