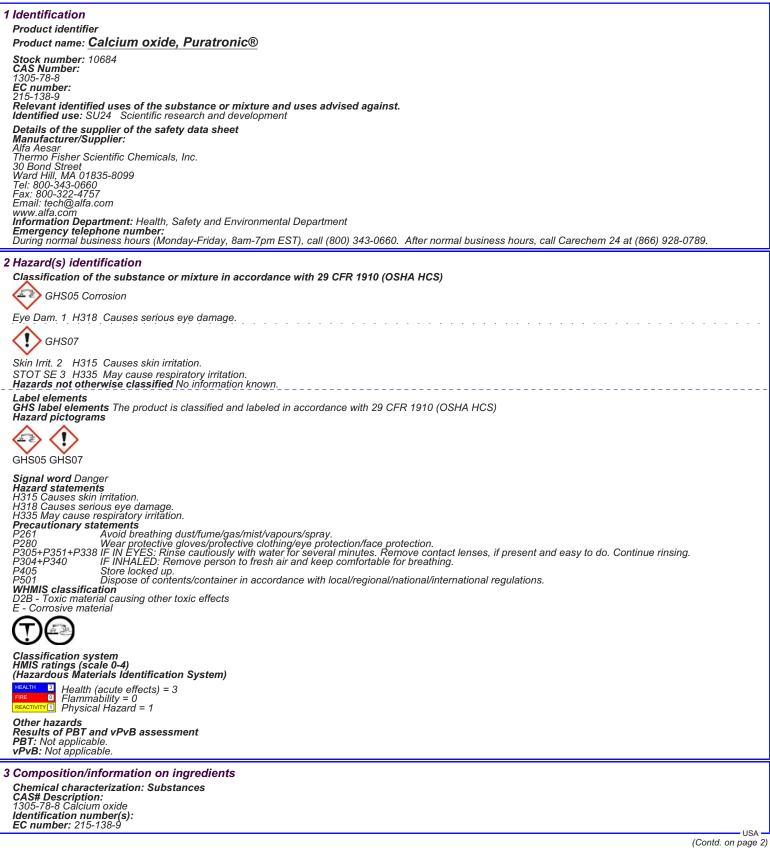


Safety Data Sheet per OSHA HazCom 2012



Product name: Calcium oxide, Puratronic®

Product name: Calcium oxide, Puratronic®	
	(Contd. of page 1)
 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After seal of the second seco	
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Metal oxide furme Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. 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 Precautions for safe handling Precautions for safe handling Handle under dry protective gas. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable 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 water/moisture. Do not store together with acids. Store away from validizing agents. Store away from malconds. Further information about storage conditions: Store away from halogens. Store under dry inent gas. This product is moisture sensitive. This product is an esnsitive. This product is an esnsitive. This product is an esnsitive. This product is an esnsitive. This product is not store logether with acids. Store away from the logens. Store away from the dagens. Store away from the dagens. Store away from the dagens. Store ander dry inent gas. This product is moisture sensitive. This product is an esnsitive. This product is an esnsitive. This product is an esnsitive. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: 1305-78-8 Calcium oxide (100.0%) PEL (USA) Long-term value: 5 mg/m ³ REL (USA) Long-term value: 2 mg/m ³	
TLV (USA) Long-term value: 2 mg/m³ EL (Canada) Long-term value: 2 mg/m³ EV (Canada) Long-term value: 2 mg/m³ Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	(Contd. on page 3)

(Contd. on page 3)

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Product name: Calcium oxide, Puratronic®			
Protection of hands:	P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- ly use equipment tested and approved under appropriate government standards. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. ninutes) 480		
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	mical properties Powder White to grey Odorless Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	2572 °C (4662 °F) 2850 °C (5162 °F) Not determined Not determined Not determined Not determined Not determined		
Vapor density	Not determined. Not determined Not determined 0 hPa 3.25-3.37 g/cm ³ (27.121-28.123 lbs/gal) Not determined. Not applicable. Not applicable. Reacts Exothermic reaction with water Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Acids Air Air Water/moisture Oxidizing agents Halogens Alcohols Hazardous decomposition products: Metal oxide fume 11 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Corrosive effect on skin and mucous membranes. Causes skin irritation. Eve irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

		u 011 00/19/2015
Product name: Calcium oxide, Puratronic®		
Additional ecological information:		(Contd. of page 3)
General notes: Do not allow material to be released to the environment without proper governn Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment	nental permits. course or sewage system.	
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	disposal.	
14 Transport information		
UN-Number	11/11/04/0	
DOT, IATA ADN, IMDG	UN1910 Not applicable	
UN proper shipping name DOT, IATA ADN, IMDG	Calcium oxide Not applicable	
Transport hazard class(es)		
DOT		
V		
Class Label	8 Corrosive substances.	
Class ADN	Not applicable	
ADN/R Class: IATA	Not applicable	
\mathbf{v}		
Class Label	8 Corrosive substances. 8	
Packing group DOT, IATA IMDG	III Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
45 Desculatory information		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the su GHS label elements The product is classified and labeled in accordance with 2	ubstance or mixture	
GHS label elements The product is classified and labeled in accordance with 2 Hazard pictograms	29 CFR 1910 (OSHA HCS)	
$\triangle \land$		
GHS05 GHS07		
Signal word Danger		
Hazard statements H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.		
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.		
P280 Wear protective gloves/protective clothing/eye protection/fac P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes P304+P340 IF INHALED: Remove person to fresh air and keep comforta P405 Store locked up	ce protection. . Remove contact lenses, if present and easy to do. Continue rinsing. able for breathing.	
P501 Dispose of contents/container in accordance with local/regic National regulations	C C	
All components of this product are listed in the U.S. Environmental Protection A All components of this product are listed on the Canadian Domestic Substances SARA Section 313 (specific toxic chemical listings) Substance is not listed.	Agency Toxic Substances Control Act Chemical substance Inventory. s List (DSL).	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.		
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.		
Information about limitation of use: For use only by technically qualified indiv	viduals.	(Contd. on page 5)

Product name: Calcium oxide, Puratronic®

(Contd. of page 4)

USA

Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the us
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and accords:
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Date of preparation / last revision 11/23/2015 / Abbreviations and accords:
Department is ransport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
MDG: International Amittime Code for Dangerous Goods by Road)
DOT: US Department of Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
(CAS: Chemical Abstracts Service (division of the American Chemical Substances
LCSO: Lethal concentration, 50 percent
LDSO: Lethal concentration, 50 percent
LDSO: Lethal concentration and rever Bioaccumulative
ACGIH: American Contract and very Bioaccumulative
ACGIH: American Contract and very Bioaccumulative
ACGIH: American Conterrence of Governmental Industrial Hygienists (USA)
OXFN: Neuroinal Toxicology Program (USA)
MTP: Neuroinal Toxicology Program (USA)
MTP: Neuroinal Toxicology Program (USA)