

CALCIUM-46 CARBONATE (46Ca)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 28/01/2011 Revision date: 23/05/2017 Supersedes: 28/01/2011

CALM-3993

Version: 2.0

	e substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form : Substance				
Substance name	: CALCIUM-46 CARBONATE (46Ca)			
EC No : 207-439-9 (Unlabeled)				
CAS No	: 471-34-1 (Unlabeled)			
Product code	: CALM-3993			
Formula	: *CaCO3			
1.2. Relevant identified uses of th	e substance or mixture and uses advised against			
1.2.1. Relevant identified uses				
Main use category	: Professional use			
Industrial/Professional use spec	: For professional use only			
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the	safatu data shaat			
Cambridge Isotope Laboratories, Inc.	Salety data Sileet			
50 Frontage Road				
Andover, MA 01810				
USA: 1-800-322-1174 Int: 1-978-749-8 cilsales@isotope.com www.isotope.com				
Emergency telephone number Emergency numbers:				
Chemtrec: 1-800-424-9300 (24 hours)				
International: 1-703-741-5970 (24 hours)				
SECTION 2: Hazards identificat	tion			
2.1. Classification of the substant				
Classification according to Regulation Not classified	(EC) NO. 12/2/2006 [CLF]			
Classification according to Directive 6	7/548/EEC [DSD] or 1999/45/EC [DPD]			
Not classified				
GHS-US classification				
Not classified				
Adverse physicschemical human has	Ith and anvironmental offecto			
Adverse physicochemical, human health and environmental effects No additional information available				
2.2. Label elements				

GHS-US labeling

No labeling applicable

2.3. **Other hazards**

No additional information available

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SECTION 3: Composition/Information on ingredients				
3.1. Substances				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
CALCIUM-46 CARBONATE (46Ca)	(CAS No) 471-34-1 (Unlabeled) (EC No) 207-439-9 (Unlabeled) (EC Index No)	100	Not classified	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
CALCIUM-46 CARBONATE (46Ca)	(CAS No) 471-34-1 (Unlabeled) (EC No) 207-439-9 (Unlabeled) (EC Index No)	100	Not classified	

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
CALCIUM-46 CARBONATE (46Ca) (Main constituent)	(CAS No) 471-34-1 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the s	ubstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.
6.1.2. For emergency responders No additional information available	

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

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6.3. Methods and materia	al for containment and cleaning up			
For containment		Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.		
Methods for cleaning up	: Shovel or sweep up and	put in a closed container for disposal.		
6.4. Reference to other sections				
No additional information availa	ble			
SECTION 7: Handling a	nd storage			
7.1. Precautions for safe				
Precautions for safe handling	: Provide adequate ventila	ation to minimize dust and/or vapor concentrations.		
Hygiene measures		: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe	storage, including any incompatibilities			
Technical measures	: Store in a well-ventilated	I place. Keep container tightly closed.		
Storage conditions	: Store at room temperatu	: Store at room temperature away from light and moisture.		
7.3. Specific end use(s)				
No additional information availa	ble			
SECTION 8: Exposure c	ontrols/personal protection			
8.1. Control parameters				
CALCIUM-46 CARBONATE (46Ca) (471-34-1 (Unlabeled))			
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ Basis: ACGIH Threshold Limit Values (TLV)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m ³ Basis: NIOSH Recommended Exposure Limits		
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	10 mg/m ³ Basis: NIOSH Recommended Exposure Limits		
USA NIOSH	Remark (NIOSH)	Occurs in nature as limestone, chalk, marble, dolomite, aragonite, calcite & oyster shells.		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
USA OSHA	OSHA PEL (STEL) (mg/m³)	10 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants; Basis: California permissible exposure limits for chemical		

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

contaminants (Title 8, Article 107)

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.	
Hand protection	: Wear suitable protective clothing and gloves.	
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.	
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.	
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.	
Environmental exposure controls	: Avoid release to the environment.	
SECTION 9: Physical and chem	SECTION 9: Physical and chemical properties	

9.1. Information on basic physical and	I chemical properties	
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 106.01 g/mol (Labeled)	
Color	: white.	
Odor	: No data available.	

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Odor threshold	: No data available
рН	: 8
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 800 °C (1,472°F) - Decomposes on heating.
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 2.93 g/cm3 at 25°C (77°F)
Solubility	: Water: insoluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

Other information 9.2.

No additional information available

No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable if stored under recommended conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Moisture. Moisture sensitive.		
10.5. Incompatible materials		
Strong oxidizing agents. Acids. magnesium. Alu	ninum.	
10.6. Hazardous decomposition products		
Calcium oxide.		
SECTION 11: Toxicological informat	ion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
CALCIUM-46 CARBONATE (46Ca) (471-34-1	(Unlabeled))	
LD50 oral rat	6450 mg/kg	
Skin corrosion/irritation	: Skin. rabbit. Result: No skin irritation. (OECD 404 method)	
	pH: 8	
Serious eye damage/irritation	: Eyes. rabbit. Result: Mild eye irritation. (OECD 405 method)	
	pH: 8	
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified : Not classified	
Carcinogenicity	: Not classified	
• •		
Reproductive toxicity Specific target organ toxicity – single exposure	: Not classified : Not classified	
	: Not classified	
Specific target organ toxicity – repeated exposure		
Aspiration hazard	: Not classified	
	FN (F, F, L 10) (0	

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Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	

12.4. Mobility in soil

No additional information available

12.5. **Results of PBT and vPvB assessment**

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations 13.1

13.1.	Waste treatment methods		
Regional	legislation (waste)	:	Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Product/P	Packaging disposal recommendations:	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

: Dispose of as unused product.

Ecology - waste materials

SECTION	14: Transport informatio	n
In accordan	ce with ADR / RID / IMDG / IATA /	ADN
14.1. U	N number	
Not applicat	ble	
14.2. U	N proper shipping name	
Not applicat		
14.3. A	dditional information	
Other inform	nation	: No supplementary information available.
Special tran	sport precautions	: Not classified as dangerous in the meaning of transport regulations.
Overland tr	ansport	
No additiona	al information available	

Transport by sea

No additional information available

Air transport

No additional information available

14.4.	Environmental hazards	
Other information		: No supplementary information available.
14.5.	Special precautions for user	
Special transport precautions		: Not classified as dangerous in the meaning of transport regulations.

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Not applicable

SECTION 15: Regulatory information					
15.1. US Federal regulations					
CALCIUM-46 CARBONATE (46Ca) (471-34-1 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.				
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.				

15.2. International regulations

CANADA

CALCIUM-46 CARBONATE (46Ca) (471-34-1 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

CALCIUM-46 CARBONATE (46Ca)(471-34-1 (Unlabeled))				
U.S California - Proposition 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List			

SECTION 16: Other information

Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	

Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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