

Calcium D-gluconate Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 10/1/2019 Version: 1.0

SECTION 1: Identification of the substar	ce/mixture and of the company	//undertaking
1.1. Product identifier Product form	: Substance	
Substance name	: Calcium D-gluconate	
IUPAC name	: calcium bis((2R,3S,4R,5R)-2,3,4,5,6-pentahydroxyhexanoate)	
EC-No.	: 206-075-8	
CAS-No.	: 299-28-5	
Product code		
Formula	: 51659757	
	: C12H22CaO14	
roduct group : Raw material .2. Relevant identified uses of the substance or mixture and uses advised against		
	e of finitiare and uses advised aga	llist
1.2.1. Relevant identified uses	. Lakanatan una Industrial una Drafassian	
C 7	: Laboratory use,Industrial use,Profession	iai use
·	: For professional use only	
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinar	y purposes.
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data	sheet	
Supplier		
Scafell Organics Molekula Ltd Lingfield Way Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705		
info@molekula.com / kbowen@molekula.com - www.i	<u>molekula.com</u>	
1.4. Emergency telephone number Emergency number : +4	44 (0) 7590 545705	
	(0) 7390 343703	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixtur	.е	
Classification according to Regulation (EC) No. 12 Not classified	72/2008 [CLP]	
Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements		
Not classified.		
2.3. Other hazards		
This substance/mixture does not meet the PBT criteria	a of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criter	•	
	-	
SECTION 3: Composition/information or 3.1. Substances	ingredients	
Name	Product identifier	%
Calcium D-gluconate	(CAS-No.) 299-28-5	100
	(EC-No.) 206-075-8	
3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures First-aid measures general	: If possible show this sheet. if not availa	ble show packaging or label. Never give anything by
	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.	
rst-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfor for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention		fresh air and keep at rest in a position comfortable espiration if necessary. If breathing difficulties

persist : Get medical advice/attention.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	: Calcium oxide. Carbon oxides (CO, CO2).
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measur	es
6.1. Personal precautions, protective equipr	ment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for containment a	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

 See Heading 8. Exposure controls and personal protection.

 SECTION 7: Handling and storage

 7.1. Precautions for safe handling

 Precautions for safe handling

 Hygiene measures

 : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

 7.2. Conditions for safe storage, including any incompatibilities

 Technical measures
 : Ensure adequate ventilation, especially in confined areas.

 Storage conditions
 : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Incompatible products : Strong oxidizing agents. Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Storage area : Store below 20 °C. Store in a dry place. Store in a closed container. 7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes. SECTION 8: Exposure controls/personal protection 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure

Materials for protectiv	ve clothing:						
Wear suitable protectiv	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves t	o be used mu	ist comply w	ith the specifications of	the regulation 2016/425 a	nd the resul	ant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetration Standard		
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11	E		EN 374
Eye protection:							
Emergency eye wash f designed to protect aga			ble in the immediate vi	cinity of any potential expo	sure. Use e	e protection	according to EN 166
Turne	Use Characteristics Standard						
туре		000		onaraotonistico			
Type Safety glasses		Fine dust, E	Dust	With side shields		EN 166	
	tion:		Dust				
Safety glasses Skin and body protec	wers should b	Fine dust, I			e. Keep suita	EN 166	y resistant protective
Safety glasses Skin and body protec Emergency safety shov clothing readily availab	wers should b	Fine dust, I		With side shields	e. Keep suita	EN 166	y resistant protectiv
Safety glasses Skin and body protec Emergency safety show	wers should b le for emerge	Fine dust, I		With side shields	e. Keep suita	EN 166	y resistant protective

Device	Filter type	Condition	Standard
Dust mask	Type P1	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pr 9.1. Information on basic physical and che Physical state	
Appearance	: Powder.
Molecular mass	: 430.37 g/mol
Colour	: White to off-white.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available

Calcium D-gluconate Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2 Other information	

9.2. Other information No additional information available

10.1. Reactivit	ty
The product is n	on-reactive under normal conditions of use, storage and transport.
10.2. Chemica	al stability
Stable under rec	commended handling and storage conditions (see section 7).
10.3. Possibili	ity of hazardous reactions
No dangerous re	eactions known under normal conditions of use.
10.4. Conditio	ons to avoid
Protect from sun	nlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompa	atible materials
Strong oxidizers	i.
10.6. Hazardo	bus decomposition products
	ecomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Calcium oxid

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological info	mation	
12.1. Toxicity		
Acute aquatic toxicity	: Not classified	
10/1/2010 () /orging: 1.0)	EN (English)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Chronic aquatic toxicity	: Not classified	
12.2. Persistence and degradability		
Calcium D-gluconate (299-28-5)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Calcium D-gluconate (299-28-5)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Calcium D-gluconate (299-28-5)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID	n accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number		·			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shippin	g name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard o	class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					
14.6. Special precautions for user					
Overland transport					
Not regulated					
Transport by sea					
Not regulated					
Air transport					
Not regulated					

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

No REACH Annex XVII restrictions

Calcium D-gluconate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information			
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.		
Other information	: None.		

SDS EU (REACH Annex II)

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.