

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 9/5/2018 Version: 1.0

SECTION 1: Identification of the substant	ce/mixture and of the company	/undertaking	
1.1. Product identifier			
	Substance		
Substance name	D-(-)-Sorbitol		
IUPAC name	(2R,3R,4R,5S)-hexane-1,2,3,4,5,6-hexa	I	
	: 200-061-5		
	50-70-4		
	90025868		
	C6H14O6		
•	Exempted from REACH registration		
1.2. Relevant identified uses of the substance	or mixture and uses advised agai	nst	
1.2.1. Relevant identified uses Industrial/Professional use spec	For professional use only Laboratory chemicals Industrial		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data s Scafell Organics	heet		
Molekula Ltd			
Lingfield Way			
Darlington - England			
T +44 (0) 1949 823777 / +44 (0) 7590 545705	al duda a sus		
info@molekula.com / kbowen@molekula.com - www.n	lolekula.com		
1.4. Emergency telephone number			
Emergency number : +4	4 (0) 7590 545705		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture)		
Classification according to Regulation (EC) No. 1272/2008 ICL PI			
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified			
Not classified			
Adverse physicochemical, human health and environmental effects			
No additional information available			
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/2008 [CLP]			
No labelling applicable			
2.3. Other hazards			
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			
SECTION 3: Composition/information on	ingradiante		
SECTION 3: Composition/information on 3.1. Substances	ingretients		
	Mono-constituent		
Name	Product identifier	%	
D-(-)-Sorbitol	(CAS-No.) 50-70-4 (EC-No.) 200-061-5	100	
3.2. Mixtures	1. ,		
Not applicable			
····			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	Never give anything by mouth to an unc	onscious person. If you feel unwell, seek medical	
r liet all motouros general	advice (show the label where possible).		
First-aid measures after inhalation	Assure fresh air breathing. Allow the vio	tim to rest.	

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

First-aid measures after skin contact

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First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting.
4.2. Most important symptoms and effects	
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	: Dust from this product may cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.2 Indication of any immediate medical a	ttention and anopial treatment needed

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.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container closed when not in use. Eliminate all ignition sources if safe to do so.
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. Use self-contained breathing apparatus.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without unnecessary risk. Avoid dust formation.	
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. Avoid contact with skin, eyes and clothing. Do not touch or walk on the spilled product.	
Measures in case of dust release	: Keep upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).	
6.1.2. For emergency responders		
Protective equipment	: Use self-contained breathing apparatus and chemically protective clothing.	
Emergency procedures	: Stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters.		
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.	

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	: Does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice and that precautions are taken to avoid the inhalation of dust. Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 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 a	ny incompatibilities
Technical measures	: Comply with applicable regulations. Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
Incompatible products	: Oxidising agents.
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Incompatible materials Storage area : Direct sunlight. Heat sources.

: Store in drv r

: Store in dry protected location to prevent any moisture contact. Store at ambient temperature.

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Ensure that there is a suitable ventilation system. Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

Materials for protective clothing:						
Use chemically protective clothing						
be used mu	ist comply w	ith the specifications of th	ne regulation 2016/425 ar	nd the result	ant standard	EN 374
ype Material		Permeation	Thickness (mm)	Penetration		Standard
Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
ountains sho	uld be availa	ble in the immediate vicir	nity of any potential expos	sure		
Type Use			Characteristics		Standard	
Safety glasses Fine dust, I		Dust	With side shields		EN 166	
Skin and body protection:						
Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use						
Type Standard						
Protective clothing (with elasticated cuffs and closed neck)		EN ISO 13982				
Respiratory protection:						
No respiratory protection needed under normal use conditions						
	Filter type		Condition		Standard	
Туре Р1		Dust protection EN 143				
	ve clothing be used mu Material Nitrile rubb ountains shou ion: ers should be e for emerge elasticated i:	ve clothing ve clothing be used must comply w Material Nitrile rubber (NBR) untains should be availa use Fine dust, I ion: ers should be available i e for emergency use elasticated cuffs and clo i: n needed under normal u Filter type	ve clothing ve clothing be used must comply with the specifications of the specifications of the specification of the s	ve clothing ve clothing be used must comply with the specifications of the regulation 2016/425 ar Material Permeation Material Permeation Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 ountains should be available in the immediate vicinity of any potential expose Use Characteristics vintains should be available in the immediate vicinity of any potential expose ion: Fine dust, Dust vers should be available in the immediate vicinity of any potential exposure. e for emergency use Standard elasticated cuffs and closed neck) EN ISO 13982 i: n needed under normal use conditions Filter type Condition	o Permeation Thickness (mm) Penetration Material Permeation Thickness (mm) Penetration Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Use Characteristics Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Use Characteristics Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Initrile rubber (NBR) 6 (> 480 minutes) 0.11 0 Use Characteristics Initrile rubber (NBR) Initrile rubber (NBR) 0 (NBR) 0 Initrile rubber (NBR) Characteristics Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR) Initrile rubber (NBR	Ver clothing Ver clothing Net clothing Net clothing Permeation Thickness (mm) Penetration Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 Penetration Maderial Use Characteristics Standard Image: Standard Standard Standard Image: Standard Im

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and cho	emical properties	
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 182.17 g/mol	
Colour	: white.	
Odour	: No data available	
Odour threshold	: No data available	
рН	: 5 - 7 at 182 g/l at 25.C	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 98 - 100 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: soluble in water.
	Water: 182 g/l @20.C
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

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under recommended handling and storage conditions (see section 7).		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
10.5. Incompatible materials		
Oxidising agents.		
10.6. Hazardous decomposition products		
Thermal decomposition generates : Carbon oxides (CO, CO2).		

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
D-(-)-Sorbitol (50-70-4)	
LD50 oral rat	15900 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 5 - 7 at 182 g/l at 25.C
Serious eye damage/irritation	: Not classified
	pH: 5 - 7 at 182 g/l at 25.C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
D-(-)-Sorbitol (50-70-4)		
Persistence and degradability	Potentially biodegradable.	

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12.3. Bioaccumulative potential		
D-(-)-Sorbitol (50-70-4)		
Bioaccumulative potential	Not potentially bioaccumulable.	
12.4. Mobility in soil		
D-(-)-Sorbitol (50-70-4)		
Ecology - soil Expected to be highly mobile in soil.		
12.5. Results of PBT and vPvB assessment		
D-(-)-Sorbitol (50-70-4)		
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		

No additional information available

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 / 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 shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard 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

No REACH Annex XVII restrictions D-(-)-Sorbitol is not on the REACH Candidate List D-(-)-Sorbitol is not on the REACH Annex XIV List

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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

No additional information available

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.