

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 9/23/2019 Revision date: 9/23/2019 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the compa	ny/undertaking	
1.1. Product identifier			
Product form	: Substance		
Substance name	: Sodium sulfate		
IUPAC name	: Bisodium sulfate		
EC-No.	: 231-820-9		
CAS-No.	: 7757-82-6		
Product code	: 28905333		
Formula	: Na2SO4		
Product group	: Raw material		
1.2. Relevant identified uses of the substa	nce or mixture and uses advised ag	gainst	
1.2.1. Relevant identified uses			
Main use category	: Laboratory use,Industrial use,Profess	sional use	
Industrial/Professional use spec	: For professional use only		
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterir	nary purposes.	
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety da	ita 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 - wv	<u>/w.molekula.com</u>		
1.4. Emergency telephone number			
	: +44 (0) 7590 545705		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mix	ture		
Classification according to Regulation (EC) No	1272/2008 [CL P]		
Not classified			
Not classified			
Adverse physicochemical, human health and e	nvironmental effects		
No additional information available			
2.2. Label elements			
Not classified.			
2.3. Other hazards			
This substance/mixture does not meet the PBT crit	eria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB cr	-		
	0 <i>i</i>		
SECTION 3: Composition/information	on ingredients		
3.1. Substances			
Name	Product identifier	%	
Sodium sulfate	(CAS-No.) 7757-82-6	100	
	(EC-No.) 231-820-9		
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 available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.		
First-aid measures after inhalation	•	to fresh air and keep at rest in a position comfortable	
for breating is difficult, remove wearing is difficult, remove wearing is difficult respiration if necessary. If breathing d persist : Get medical advice/attention		al respiration if necessary. If breathing difficulties	

persist : Get medical advice/attention.

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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 effects	, 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 at Treat symptomatically.	ttention and special treatment needed

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	ince or mixture
Hazardous decomposition products in case of fire	: Sulphur oxides. Sodium Oxides.
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 measure	es
6.1. Personal precautions, protective equipment	
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 aut	horities 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 prote	ection.

SECTION 7: Handling and stora 7.1. Precautions for safe handling	ge
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
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 inc	aluding any incompatibilities

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ensure adequate ventilation, especially in confined areas.

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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. Hygroscopic. Protect from moisture.
Incompatible products	: Strong oxidizing agents. Aluminium. magnesium.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. Moisture. Water, humidity.
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 dry protected location to prevent any moisture contact.

7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Expo		rols/persc	onal protection				
8.1. Control parame No additional information							
8.2. Exposure control							
Appropriate engineeri							
•••••	-		e and safety procedures				
Personal protective eq	uipment:	,0	51				
Avoid all unnecessary e	-						
Materials for protectiv	ve clothing:						
Wear suitable protectiv	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	o be used mu	ust comply w	ith the specifications of t	he regulation 2016/425 ar	nd the result	ant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11	0.11		EN 374
Eye protection:							
Emergency eye wash for designed to protect again			ble in the immediate vici	nity of any potential expos	sure. Use ey	e protection	according to EN 166,
Туре	Type Use Characteristics Standard						
Safety glasses		Fine dust, D	Dust	With side shields		EN 166	
Skin and body protec	tion:						
Emergency safety show clothing readily available			n the immediate vicinity	of any potential exposure.	. Keep suita	ble chemicall	y resistant protective
Type Standard							
Long sleeved protective clothing EN ISO 13982							
Respiratory protectio	n:						
No respiratory protection	on needed un	der normal u	use conditions. [In case c	f inadequate ventilation]	wear respira	tory protectio	n.
Device	Filter type			Condition Standard		Standard	
Dust mask	Type P1			Dust protection		EN 14387	

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p	
9.1. Information on basic physical and ch	nemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 142.04 g/mol
Colour	: White to off-white.
Odour	: No data available.
Odour threshold	: No data available
рН	: 5 - 8
Relative evaporation rate (butylacetate=1)	: No data available

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	•
Melting point	: 884 - 888 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: > 890 °C
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	: -3
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
0.0. Other information	

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 co	onditions (see section 7).
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal condition	ons of use.
10.4. Conditions to avoid	
Protect from sunlight. Keep away from heat, hot surfa	aces, sparks, open flames and other ignition sources. No smoking. Moisture. Water, humidity.
10.5. Incompatible materials	
Strong oxidizers. Aluminium. magnesium.	
10.6. Hazardous decomposition products	
No hazardous decomposition products known at roor	m temperature. Thermal decomposition generates : Sulphur oxides. Sodium Oxides.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	· Not classified

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Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Sodium sulfate (7757-82-6)		
LD50 oral rat	> 10000 mg/kg	
LD50 dermal rabbit	> 4000 mg/kg	
Skin corrosion/irritation	: Not classified	
	pH: 5 - 8	
Additional information	: Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Not classified	
	pH: 5 - 8	
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	
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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 information		
12.1. Toxicity		
Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
Sodium sulfate (7757-82-6)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Sodium sulfate (7757-82-6)		
Log Pow	-3	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Sodium sulfate (7757-82-6)		
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: Trans	port 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				
المغيب متراجعه ا				

Not regulated

Transport by sea

Not regulated

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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 Sodium sulfate 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.