

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/29/2017 Revision date: 3/8/2019 Version: 1.0

SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: MOPS (3-Morpholinopropanesulfonic acid)
IUPAC name	: 3-(4-morpholino)propanesulphonic acid
EC-No.	: 214-478-5
CAS-No.	: 1132-61-2
Product code	: 14868563
Formula	: C7H15NO4S
Product group	: Raw material
1.2. Relevant identified uses of the substant	
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,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 safety data	a sheet
Scafell Organics Molekula Ltd	
Lingfield Way	
Darlington - Éngland	
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	u molekula com
1.4. Emergency telephone number Emergency number : ·	+44 (0) 7590 545705
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixtu	Ire
Classification according to Regulation (EC) No. 1	
Specific target organ toxicity — Single exposure, Cal Respiratory tract irritation	
Serious eye damage/eye irritation, Category 2	H319
Skin corrosion/irritation, Category 2	H315
Full text of H statements : see section 16	
Adverse physicochemical, human health and env	vironmental effects
No additional information available	
2.2. Label elements	
	2008 [C] P1
Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP)	
	\mathbf{V}
	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	: P261 - Avoid breathing dust, fume.
- ,	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
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

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SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
MOPS (3-Morpholinopropanesulfonic acid) (CAS-No.) 1132-61-2 (EC-No.) 214-478-5 100			

Full text of H-statements: 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 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	 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
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 after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. Redness, pain. stinging. Tears.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting. Abdominal pain, nausea.
4.3. Indication of any immediate medical at	tention and special treatment needed

Get immediate medical advice/attention.

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	ance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur 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 mea	sures
6.1. Personal precautions, protective eq	uipment 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. 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	
B	

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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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	: 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, 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.
Incompatible products	: Strong oxidisers. Bases.
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 at ambient temperature. Store in a dry place. Store in a closed container.
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:

Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:							
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374							
Туре	Material Permeation		Permeation	Thickness (mm)	ess (mm) Penetrati		Standard
Disposable gloves	isposable gloves Nitrile rubber (NBR)		6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fou	intains sho	uld be availa	ble in the immediate vici	nity of any potential exp	osure		
Туре		Use		Characteristics		Standard	
Safety goggles	Dust			tightly fitting safety goggles, With side shields		EN 166	
Skin and body protection:							
Emergency safety showe clothing readily available			n the immediate vicinity o	of any potential exposur	e. Keep suita	ble chemicall	y resistant protective
Type Standard							
Long sleeved protective clothing		EN ISO 13982					
Respiratory protection:							
Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended							
Device	Filter type			Condition		Standard	
Respiratory protective de a particle filter	piratory protective device with article filter		Dust protection		EN 14387		

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
	9.1. Information on basic physical and chemical properties	
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 209.3 g/mol	
Colour	: White to off white.	
Odour	: No data available.	
Odour threshold	: No data available	
pH	: 2.5 - 4 at 209 g/l at 25 °C	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 277 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: 110 °C closed cup	
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	: Very soluble.	
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.			
•	ons of use, storage and transport.		
10.2. Chemical stability Stable under recommended handling and storage	conditions (soo soction 7)		
· · · ·			
10.3. Possibility of hazardous reactions No dangerous reactions known under normal con	ditions of use		
10.4. Conditions to avoid			
	surfaces, sparks, open flames and other ignition sources. No smoking.		
10.5. Incompatible materials			
Strong oxidizers. Bases.			
10.6. Hazardous decomposition products			
	room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.		
Sulphur oxides.			
SECTION 11: Toxicological informati	on		
SECTION 11: Toxicological information 11.1. Information on toxicological effects			
11.1. Information on toxicological effects			
11.1. Information on toxicological effects Acute toxicity (oral)	: Not classified		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified : Not classified		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) MOPS (3-Morpholinopropanesulfonic ac	: Not classified : Not classified : Not classified id) (1132-61-2)		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) MOPS (3-Morpholinopropanesulfonic ac LD50 oral rat	: Not classified : Not classified : Not classified id) (1132-61-2) > 2000 mg/kg		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) MOPS (3-Morpholinopropanesulfonic ac LD50 oral rat	: Not classified : Not classified : Not classified id) (1132-61-2) > 2000 mg/kg : Causes skin irritation.		
11.1. Information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) MOPS (3-Morpholinopropanesulfonic ac LD50 oral rat Skin corrosion/irritation	: Not classified : Not classified id) (1132-61-2) > 2000 mg/kg : Causes skin irritation. pH: 2.5 - 4 at 209 g/l at 25 °C		

Additional information

: Not classified

: Based on available data, the classification criteria are not met

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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	: May cause respiratory irritation.
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 information			
12.1. Toxicity			
Acute aquatic toxicity :	Not classified		
Chronic aquatic toxicity :	Not classified		
MOPS (3-Morpholinopropanesulfonic acid) (1	132-61-2)		
EC50 Daphnia 1	> 100 mg/l Daphnia magna (Water flea) 48hr		
12.2. Persistence and degradability			
MOPS (3-Morpholinopropanesulfonic acid) (1	132-61-2)		
Persistence and degradability	Very soluble.		
12.3. Bioaccumulative potential			
MOPS (3-Morpholinopropanesulfonic acid) (1	MOPS (3-Morpholinopropanesulfonic acid) (1132-61-2)		
Bioaccumulative potential	Bioaccumulation unlikely.		
2.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
MOPS (3-Morpholinopropanesulfonic acid) (1132-61-2)			
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 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 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	

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Not regulated No	t requilate d	Not reculated	Not regulated	Not remulated
	ot regulated	Not regulated	Not regulated	Not regulated
.5. Environmental hazards		1		1
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supplementary information available)			
6. Special precautions for user	r			
erland transport				
t regulated				
ansport by sea				
t regulated				
transport				
t regulated				
and waterway transport				
t regulated				
il transport				
t regulated				
.7. Transport in bulk according	to Annex II of M	larpol and the IBC Code		
t applicable				
CTION 15: Regulatory infor		o/logiclotics.cs.stite.f		
.1. Safety, health and environm	ental regulation	s/legislation specific for	the substance or mixture	9
1.1. EU-Regulations				
-				
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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.				
Full text of H- and EUH-statements:				
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

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.