

MES hydrate Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/21/2019 Version: 1.0

SECTION 1: Identification of the substance	e/mixture and of the company	lundertaking		
1.1. Product identifier	company			
	Substance			
Substance name :	MES hydrate			
	2-(N-Morpholino)ethanesulfonic acid			
	1266615-59-1			
	90028178			
	C6H13NO4S·xH2O			
	Raw material			
1.2. Relevant identified uses of the substance		nst		
1.2.1. Relevant identified uses				
Main use category :	Laboratory use,Industrial use,Professiona	al use		
	For professional use only			
·	For analytical purposes			
	Scientific research and development Not for human consumption or veterinary	purposes.		
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the safety data s	heet			
Supplier				
Scafell Organics Molekula Ltd Lingfield Way Darlington England	Scafell Organics Molekula Ltd Lingfield Way			
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www.m				
1.4. Emergency telephone number				
	(0) 7590 545705			
SECTION 2: Hazards identification				
2.1. Classification of the substance or mixture				
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified				
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 of REACH regulation, annex XIII				
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%		

MES hydrate 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.

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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 eff	ects, 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 subst		
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 measure	205	
6.1. Personal precautions, protective equip		
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 authorities if product enters sewers or public waters.		
6.3. Methods and material for containment	and cleaning up	
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 & Exposure controls and personal pro	tection	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage 7.1. 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 oxidizing agents.
Incompatible materials	Sources of ignition. Direct sunlight. Heat sources.

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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: Expo		rols/perso	onal protection				
8.1. Control parame							
No additional information							
3.2. Exposure contr Appropriate engineeri							
	-		e and safety procedures				
Personal protective e	•	istilai nygion	e and salety procedures				
Avoid all unnecessary e	•••						
Materials for protecti	ve clothing:						
Wear suitable protectiv	ve clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves	to be used mu	ust comply w	ith the specifications of t	he regulation 2016/425	and the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash t designed to protect ag			ble in the immediate vici	nity of any potential exp	osure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety glasses		Fine dust, E	Dust	With side shields EN 166		EN 166	
Skin and body protec	tion:						
Emergency safety sho clothing readily availab			n the immediate vicinity	of any potential exposu	re. Keep suita	ble chemical	lly resistant protective
Туре				Standard			
Long sleeved protective clothing			EN ISO 13982				
Respiratory protection	on:						
No respiratory protection	on needed ur	ider normal ι	use conditions. [In case o	of inadequate ventilation] wear respira	atory protecti	on.
Device	Pevice Filter type		Condition		Standard		
Dust mask Type P1				Dust protection EN 14387			
Other information:							

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch		
Physical state	: Solid	
Appearance	: Crystalline powder.	
Molecular mass	: 195.24 g/mol	
Colour	: white.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: 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	
Flash point	: No data available	
Auto-ignition temperature	: No data available	

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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
0.0. Others 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 conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.

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 StorT-single exposure Not classified Additional information Based on available data, the classification criteria are not met STOT-single exposure		
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		: Based on available data, the classification criteria are not met.

SECTION 12: Ecological infor	nation
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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12.2. Persistence and degradability			
MES hydrate (1266615-59-1)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
MES hydrate (1266615-59-1)			
Bioaccumulative potential	Bioaccumulative potential No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
MES hydrate (1266615-59-1)			
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.

: Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Product/Packaging disposal recommendations
Ecology - waste materials

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Trans	port information
In accordance with ADR /	RID / IMDG / IATA / ADA

In accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number	4.1. 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

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MES hydrate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Germany	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
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.