

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 1/3/2020 Version: 1.0

SECTION 1: Identification of the substand	e/mixture and of the company	/undertaking		
1.1. Product identifier		Anacitaning		
	Substance			
Substance name	: N-Acetyl-D-methionine			
IUPAC name	: (2R)-2-acetamido-4-(methylsulfanyl)butanoic acid			
	: 216-144-4			
CAS-No.	: 1509-92-8			
	14918715			
	C7H13NO3S			
1.2. Relevant identified uses of the substance		nst		
1.2.1. Relevant identified uses				
Main use category :	Laboratory use, Industrial use, Profession	al use		
• •	For professional use only			
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.			
		E E		
1.2.2. Uses advised against				
No additional information available	1			
1.3. Details of the supplier of the safety data s	heet			
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.molekula.com				
1.4. Emergency telephone number				
Emergency number : +44 (0) 7590 545705				
SECTION 2: Hazards identification 2.1. Classification of the substance or mixture				
Classification according to Regulation (EC) No. 127 Not classified	2/2000 [CLF]			
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	%		
N-Acetyl-D-methionine	(CAS-No.) 1509-92-8 100 (EC-No.) 216-144-4			

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 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 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 attention and special treatment needed			

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	- Foom Dry pourder Carbon diavide Water aprov Sand
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	
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	
6.1. Personal precautions, protective equipm	
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 auth	horities if product enters sewers or public waters.
6.3. Methods and material for containment a	nd 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 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 a	ny 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.

: Store in a dry place. Store in a closed container. Store at -20°C.

7.3. Specific end use(s)

Storage area

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 protective clothing: Wear suitable protective clothing, gloves and eye/face protection 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 Thickness (mm) Penetration Standard Disposable gloves Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 EN 374 Eye protection: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts. Use Characteristics Standard Туре With side shields EN 166 Fine dust, Dust Safety glasses 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 Туре Standard Long sleeved protective clothing EN ISO 13982 **Respiratory protection:** No respiratory protection needed under normal use conditions. [In case of inadequate ventilation] wear respiratory protection. Condition Standard Device Filter type Type P1 EN 14387 Dust mask Dust protection Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and che	emical properties		
Physical state	: Solid		
Appearance	: Crystalline solid.		
Colour	: white.		
Odour	: No data available.		
Odour threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: 102 - 104 °C		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		

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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	

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.

ECTION 11: Toxicological information	on
1.1. Information on toxicological effects	
cute toxicity (oral)	: Not classified
cute toxicity (dermal)	: Not classified
cute toxicity (inhalation)	: Not classified
kin corrosion/irritation	: Not classified
dditional information	: Based on available data, the classification criteria are not met
erious eye damage/irritation	: Not classified
dditional information	: Based on available data, the classification criteria are not met
espiratory or skin sensitisation	: Not classified
dditional information	: Based on available data, the classification criteria are not met
Serm cell mutagenicity	: Not classified
dditional information	: Based on available data, the classification criteria are not met
arcinogenicity	: Not classified
dditional information	: Based on available data, the classification criteria are not met
eproductive toxicity	: Not classified
dditional information	: Based on available data, the classification criteria are not met
TOT-single exposure	: Not classified
dditional information	: Based on available data, the classification criteria are not met
TOT-repeated exposure	: Not classified
dditional information	: Based on available data, the classification criteria are not met
spiration hazard	: Not classified
dditional information	: Based on available data, the classification criteria are not met
otential adverse human health effects and ymptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)

: Not classified

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Hazardous to the aquatic environment, long-term : (chronic)	Not classified		
12.2. Persistence and degradability			
N-Acetyl-D-methionine (1509-92-8)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
N-Acetyl-D-methionine (1509-92-8)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
N-Acetyl-D-methionine (1509-92-8)			
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			<u>.</u>	
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 haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available			
4.6. Special precautions	s for user			
Overland transport				
Not regulated				
Fransport by sea				
Not regulated				
Air transport				

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

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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 N-Acetyl-D-methionine 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.