

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/29/2019 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	: Ammonium oxalate monohydrate, ACS			
EC-No.	: 611-933-3			
CAS-No.	: 6009-70-7			
Product code	: 23230264			
Formula	: C2H8N2O4 · H2O			
Product group	: Raw material			
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against			
1.2.1. Relevant identified uses				
Main use category	: Laboratory use,Industrial use,Professional 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 veterinary purposes.			
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the safety data	a 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 - 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 mixto	ure			
Classification according to Regulation (EC) No. 1	272/2008 [CLP]			
Acute toxicity (oral), Category 4	H302			
Acute toxicity (dermal), Category 4	H312			
Full text of H statements : see section 16				
Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements				
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)				
	GHS07			
Signal word (CLP)	·Warning			
Signal word (CLP)	: Warning : H302+H312 - Harmful if swallowed or in contact with skin			
Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	 Warning H302+H312 - Harmful if swallowed or in contact with skin. P264 - Wash hands, forearms and face thoroughly after handling. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P308+P313 - IF exposed or concerned: Get medical advice/attention. 			

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	%		
Ammonium oxalate monohydrate, ACS	(CAS-No.) 6009-70-7 (EC-No.) 611-933-3	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, b	oth acute and delayed				
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache.				
Symptoms/effects after skin contact	: Harmful in contact with skin. May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.				
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.				
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.				
4.3. Indication of any immediate medical attention 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.
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 measures			
6.1. Personal precautions, protective equipment and emergency procedures General measures : Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames 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.			

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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. Moisture sensitive. Protect from moisture.			
Incompatible products	: Strong acids. Strong oxidizing agents.			
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: 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					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.

Туре	Use	Characteristics	Standard
Safety goggles	Fine dust, Dust	tightly fitting safety goggles, 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

Туре	Standard
Protective clothing (with elasticated cuffs and closed neck)	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

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Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P1, Type P2	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	
9.1. Information on basic physical and c	
Physical state	: Solid
Appearance	: Crystalline powder.
Molecular mass	: 142.11 g/mol
Colour	: white.
Odour	: No data available.
Odour threshold	: No data available
рН	: 6 - 7
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 133 °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
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.5 g/cm3
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	

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. Moisture. Water, humidity.
10.5. Incompatible materials
Strong oxidizers. Strong acids.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 6 - 7
Additional information	: Based on available data, the classification criteria are not met

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Serious eye damage/irritation	: Not classified
	pH: 6 - 7
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
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		
Ammonium oxalate monohydrate, ACS (6009-70-7)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Ammonium oxalate monohydrate, ACS (6009-70-7)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
No additional information available		
No additional information available 12.5. Results of PBT and vPvB assessment		
	70-7)	
12.5. Results of PBT and vPvB assessment	·	
12.5. Results of PBT and vPvB assessment Ammonium oxalate monohydrate, ACS (6009-	of REACH regulation, annex XIII	
12.5. Results of PBT and vPvB assessment Ammonium oxalate monohydrate, ACS (6009- This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII	

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

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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14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	zards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information				
14.6. Special precaution	s for user			
Overland transport				
Not regulated				
Transport by sea				
Not regulated				
Air transport				
Not regulated				
Inland waterway transport				
Not regulated				
Rail transport Not regulated				
0	according to Annex II of M	larpol and the IBC Code		
Not applicable				
SECTION 15: Regulate	ory information			
	environmental regulation	s/legislation specific for	the substance or mixture	<u>}</u>
15.1.1. EU-Regulations				
No REACH Annex XVII restri	ictions			
	drate, ACS is not on the REAC	H Candidate List		
Directive 2012/18/EU (SEVE	SO III)			
15.1.2. National regulations	5			
No additional information ava				
15.2. Chemical safety as	sessment			

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other in	formation	
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:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	

Acule Tox. 4 (Dermai)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	

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.