

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/13/2020 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	: Pyridine-3-sulfonic acid
IUPAC name	: 3-Pyridinesulphonic acid
EC-No.	: 211-265-9
CAS-No.	: 636-73-7
Product code	: 15933208
Formula	: C5H5NO3S
Product group	: Raw material
1.2. Relevant identified uses of the substant	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	i sheet
Supplier	
Scafell Organics	
Molekula Ltd	
Lingfield Way Darlington - England	
T +44 (0) 3302 000 333	
info@molekula.com / kevinbanks@molekula.com - w	ww.molekula.com
1.4. Emergency telephone number	
Emergency number : -	+44 (0) 7769276927
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	
Classification according to Regulation (EC) No. 1	
Skin corrosion/irritation, Category 1	H314
Full text of H statements : see section 16	
Adverse physicochemical, human health and env	ironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/	2008 [CLP]
Hazard pictograms (CLP)	
	PG
Circuit (OLD)	GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P260 - Do not breathe dust/fume/gas/mist/vapoours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water /shower.
	P305+P351+P356 - IF IN ETES. RINSE Cauliously with water for several minutes. Remove
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	%
Pyridine-3-sulfonic acid	(CAS-No.) 636-73-7 (EC-No.) 211-265-9	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, I	both acute and delayed
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May be harmful if inhaled.
Symptoms/effects after skin contact	: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring. Cracking of the skin. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye burns. Blurred vision. redness, itching, tears. stinging. More severe symptoms are also possible.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.

4.3. Indication of any immediate medical attention and special treatment needed May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.

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 measures	5
6.1. Personal precautions, protective equipme	ent 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. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).

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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. N	otify authorities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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 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. Acids. 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 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.

		rolo/poroc	and protection				
SECTION 8: Expo 8.1. Control parame		ois/persc	nal protection				
No additional informatio							
8.2. Exposure contr	ols						
Appropriate engineeri							
Handle in accordance w	-		e and safety procedure	S.			
Personal protective ec	U	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Avoid all unnecessary e							
	xposule.						
Materials for protective	ve clothing:						
Wear suitable protectiv	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves t	o be used mu	ust comply wi	th the specifications of	the regulation 2016/425 a	and the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Butyl rubbe	er	6 (> 480 minutes)	0.3			EN 374
Eye protection:							
Emergency eye wash f designed to protect aga			ble in the immediate vio	cinity of any potential expo	osure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles, Face s	hield	Fine dust, D	Dust	tightly fitting safety gog side shields	gles, With	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
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

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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 device with a particle filter	Туре РЗ	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical and chem	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 159.16 g/mol
Colour	: White to off-white.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: >300
Freezing point	: No data available
Boiling point	: >66
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	: No data available
Solubility	: No data available
Log Pow	: -2.35
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. Acids. Bases.
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

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Pyridine-3-sulfonic acid (636-73-7)	
LD50 oral	>316 mg/kg - Quail
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
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			
Hazardous to the aquatic environment, short-term : (acute)	Not classified		
Hazardous to the aquatic environment, long-term : (chronic)	Not classified		
12.2. Persistence and degradability			
Pyridine-3-sulfonic acid (636-73-7)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
Pyridine-3-sulfonic acid (636-73-7)			
Log Pow	-2.35		
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	of REACH regulation, annex XIII		
No additional information available 12.5. Results of PBT and vPvB assessment Pyridine-3-sulfonic acid (636-73-7)			
No additional information available 12.5. Results of PBT and vPvB assessment Pyridine-3-sulfonic acid (636-73-7) This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteria 12.6. Other adverse effects	of REACH regulation, annex XIII		
No additional information available 12.5. Results of PBT and vPvB assessment Pyridine-3-sulfonic acid (636-73-7) This substance/mixture does not meet the PBT criteria This substance/mixture does not meet the vPvB criteria 12.6. Other adverse effects			

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: Transpo In accordance with ADR / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
2585	2585	2585	2585	2585

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14.2. UN proper shipping	g name					
ALKYLSULPHONIC ACIDS, SOLID	ALKYLSULPHONIC ACIDS, SOLID	0	Alkylsulphonic acids, solid	ALKYLSULPHONIC ACIDS, SOLID	ALKYLSULPHONIC ACIDS, SOLID	
Transport document descr	iption					
UN 2585 ALKYLSULPHONIC ACIDS, SOLID (Pyridine-3- sulfonic acid), 8, III, (E)	UN 2585 ALKYLSULPHONIC ACIDS, SOLID (Pyridir sulfonic acid), 8, III	ne-3-	UN 2585 Alkylsulphonic acids, solid (Pyridine-3- sulfonic acid), 8, III	UN 2585 ALKYLSULPHONIC ACIDS, SOLID (Pyridine-3- sulfonic acid), 8, III	UN 2585 ALKYLSULPHONIC ACIDS, SOLID (Pyridine-3- sulfonic acid), 8, III	
14.3. Transport hazard o	class(es)		1	1		
8	8		8	8	8	
	8		8	8	8	
14.4. Packing group						
III	III		III	III	III	
14.5. Environmental haz	ards					
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : N		Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary informatio	n available					
14.6. Special precautions	s for user					
Overland transport						
Classification code (ADR)		: C4				
Limited quantities (ADR)		: 5k]			
Excepted quantities (ADR)		: E1				
Packing instructions (ADR)			02, IBC08, LP02, R001			
Special packing provisions (A		: B3				
Mixed packing provisions (AD Portable tank and bulk contain (ADR)	,	: MF : T1	210			
Portable tank and bulk contair (ADR)	ner special provisions	: TP	33			
Tank code (ADR)		: SG	AV			
Vehicle for tank carriage		: AT				
Transport category (ADR)		: 3				
Special provisions for carriage	e - Bulk (ADR)	: VC	1, VC2, AP7			
Hazard identification number	(Kemler No.)	: 80				
Orange plates			80 2585			
Tunnel restriction code (ADR))	: E				
EAC code		: 2X				
Transport by sea						
Packing instructions (IMDG)			02, LP02			
		: IBC08				
IBC special provisions (IMDG						
Tank instructions (IMDG)	2)	: T1	00			
Tank special provisions (IMDC	(د	: TP				
EmS-No. (Fire)		: F-/				
EmS-No. (Spillage) : S-B						
Stowage category (IMDG) Properties and observations (: A	stalline solids. When involved	l in a fire, evolve highly toxic c	lases. In the presence of	
		mo	isture, corrosive to most meta	Is. Cause burns to skin, eyes	and mucous membranes.	

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Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C4
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C4
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 80

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 Pyridine-3-sulfonic acid 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.			
Full text of H- and EUH-statements:				
Skin Corr. 1	Skin corrosion/irritation, Category 1			

H314 Causes severe skin burns and eye damage.

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.