

**3-Mercaptopropionic acid** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/9/2020 Version: 1.0

	ance/mixture and of the company/undertaking
1.1. Product identifier Product form	Substance
Substance name	
EC-No.	: 3-Mercaptopropionic acid : 203-537-0
CAS-No.	: 107-96-0
Product code	: 89966877
Formula	: C3H6O2S
Product group	: Raw material
1.2. Relevant identified uses of the substan	ice 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.
	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 dat	a sheet
Supplier	
Scafell Organics	
Molekula Ltd Lingfield Way	
Darlington - England	
T +44 (0) 3302 000 333	
info@molekula.com / kevinbanks@molekula.com -	www.molekula.com
1.4. Emergency telephone number	
Emergency number :	+44 (0) 7769276927
SECTION 2: Hazards identification	
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2.1. Classification of the substance or mixt Classification according to Regulation (EC) No. Acute toxicity (oral), Category 3 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16	1272/2008 [CLP] H301 H314
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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

# **3-Mercaptopropionic acid** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	Product identifier	%
3-Mercaptopropionic acid         (CAS-No.) 107-96-0 (EC-No.) 203-537-0         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	<ul> <li>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.</li> </ul>
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	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. More severe symptoms are also possible.
Symptoms/effects after skin contact	: Causes severe burns. Redness, pain. More severe symptoms are also possible.
Symptoms/effects after eye contact	: Causes serious eye damage. Blurred vision. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. 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 Immediately call a POISON CENTER/doctor.

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). 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 6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour or spray. 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	: Shelter from vapours by keeping 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.		

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public water	s. Notify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for cont	ainment and cleaning up	
For containment	: Collect spillage. Contain the spilled material by bunding.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possi Try to stop release if without risk.	ible.

**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 formation of vapours. 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	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. Bases. reducing agents. Oxidising agents.
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.

<i>,</i> , , ,				·	, , ,		
<b>SECTION 8: Expos</b>	sure conti	rols/perso	onal protection				
8.1. Control paramet	ers						
No additional information							
8.2. Exposure contro							
Appropriate engineerin	-			Electric characteristic income			
	0	istrial nyglen	e and safety procedures.	Floors should be impervi	ous, resista	int to liquids a	and easy to clean.
Personal protective eq	•						
Avoid all unnecessary ex	kposure.						
Materials for protectiv	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ist comply wi	th the specifications of th	ne regulation 2016/425 ar	d the result	ant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetration		Standard
	Nitrile rubber (NBR), Butyl rubber		6 (> 480 minutes)	0.7			EN 374
Eye protection:							
Emergency eye wash fo designed to protect aga			ble in the immediate vici	nity of any potential expos	ure. Use ey	e protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles, Face sh	nield Droplet, vapours		tightly fitting safety goggles, With side shields		EN 166		
Skin and body protect	ion:						
Emergency safety show clothing readily available			n the immediate vicinity o	of any potential exposure.	Keep suita	ble chemicall	y resistant protective
Type Standard							
			EN 14605				

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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
Air-Purifying Respirator (APR), reusable	ABEK	Moist condition, Mist formation, Protection for Liquid particles, Vapour protection	EN 14387

### Other information:

Do not eat, drink or smoke during use.

<b>SECTION 9: Physical and chemical p</b>	ronerties
9.1. Information on basic physical and ch	
Physical state	: Liquid
Molecular mass	: 106.14 g/mol
Colour	: Colourless. light yellow.
Odour	: Stench.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 15 - 18 °C
Freezing point	: No data available
Boiling point	: 110 - 111
Flash point	: 93.4 °C
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	: 1.218
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. Bases. reducing agents. Oxidising agents.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates :
SECTION 11: Toxicological information
11.1. Information on toxicological effects

SECTION TE TOXICOlogical information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

# **3-Mercaptopropionic acid** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 3-Mercaptopropionic acid (107-96-0)

LD50 oral rat	96 mg/kg
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		
3-Mercaptopropionic acid (107-96-0)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
3-Mercaptopropionic acid (107-96-0)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
3-Mercaptopropionic acid (107-96-0)		
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. Hazardous waste due to toxicity.
SECTION 44: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR IMDG IATA ADN RID				
14.1. UN number				
2922	2922	2922	2922	2922

# **3-Mercaptopropionic acid** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

according to Regulation (EC) No. 190	01/2000 (INEACIT) with its affe			
14.2. UN proper shipping name				
CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.	Corrosive liquid, toxic, n.o.s.	CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.
Transport document descript	tion		I	I
	UN 2922 CORROSIVE IQUID, TOXIC, N.O.S. (3- Mercaptopropionic acid), 8 (6.1), II	UN 2922 Corrosive liquid, toxic, n.o.s. (3- Mercaptopropionic acid), 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (3- Mercaptopropionic acid), 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (3- Mercaptopropionic acid), 8 (6.1), II
14.3. Transport hazard cla	iss(es)			
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazar	ds			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information a	available			1
14.6. Special precautions f	or user			
Overland transport				
Classification code (ADR)	: CT			
Special provisions (ADR)	: 27	4		
Limited quantities (ADR)	: 11			
Excepted quantities (ADR) Packing instructions (ADR)	: E2	: 001, IBC02		
Mixed packing provisions (ADR)				
Portable tank and bulk container (ADR)				
Portable tank and bulk container (ADR)	r special provisions :TF	22		
Tank code (ADR)	: L4	BN		
Vehicle for tank carriage	: AT	-		
Transport category (ADR)	: 2			
Special provisions for carriage - unloading and handling (ADR)	Loading, : C\	/13, CV28		
Hazard identification number (Ke	emler No.) : 86			
Orange plates	:	86 2922		
Tunnel restriction code (ADR)	: E			
EAC code	: 2X			
APP code	: B			
Transport by sea	: 27	Λ		
Special provisions (IMDG) Packing instructions (IMDG)	: 27			
IBC packing instructions (IMDG)				
Tank instructions (IMDG)	; : T7			
Tank special provisions (IMDG)	: TF			
EmS-No. (Fire)	: F-/			
EmS-No. (Spillage)	: S-			
Stowage category (IMDG)	: B			
Stowage and handling (IMDG)	: SV	V2		

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8P
Inland waterway transport	
Classification code (ADN)	: CT1
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	:1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	:T
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
Rail transport	
Classification code (RID)	: CT1
Special provisions (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 86

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 3-Mercaptopropionic 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.	

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Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3	
Skin Corr. 1	Skin corrosion/irritation, Category 1
H301	Toxic if swallowed.
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.