

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/24/2020 Version: 1.0

SECTION 4. Identification of the subst	noolmivture and of the companylundertaking		
1.1. Product identifier	nce/mixture and of the company/undertaking		
Product form	: Substance		
Substance name	: Salinomycin		
EC-No.	: 258-290-1		
CAS-No.	: 53003-10-4		
Product code	: 10569390		
Formula	: C42H70O11		
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 - Éngland 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. Horordo identification			
SECTION 2: Hazards identification 2.1. Classification of the substance or mixto	ıre		
Classification according to Regulation (EC) No. 1	272/2008 [CLP]		
Acute toxicity (oral), Category 2 H300			
Full text of H statements : see section 16			
Adverse physicochemical, human health and env No additional information available	vironmental effects		
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP)			
	V V		
	$\mathbf{V}$		
	GHS06		
Signal word (CLP)	gnal word (CLP) : Danger		
Hazard statements (CLP)			
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
2.3. Other hazards			
This substance/mixture does not meet the PBT crite	ria of REACH regulation, annex XIII		
<b>T</b> :			

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	%
Salinomycin	(CAS-No.) 53003-10-4 (EC-No.) 258-290-1	100

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### Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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 b 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 effec	ts, both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throa with constricting sensation of the larynx and difficulty in breathing. Headache. More severe symptoms are also possible.
Symptoms/effects after skin contact	: May cause skin irritation. Redness, pain. More severe symptoms are also possible.
Symptoms/effects after eye contact	: May cause severe irritation. redness, itching, tears. Blurred vision.
Symptoms/effects after ingestion	: Fatal if swallowed.
<b>4.3. Indication of any immediate medical</b> Immediately call a POISON CENTER/doctor.	attention and special treatment needed

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 subs	stance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).
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.	
<b>SECTION 6: Accidental release measu</b>	ures
6.1. Personal precautions, protective equi	pment 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

## 6.1.2. For emergency responders

Protective equipment

# Emergency procedures chemically protective clothing.

6.2. Environmental precautions

Prevent entry to sewers	and public waters	. Notify authorities if p	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.

low lying areas (basements, workpits etc).

: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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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	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.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store at -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: 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:

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.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	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
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	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

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 143

### Other information:

Do not eat, drink or smoke during use.

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SECTION & Physical and chemical m	ionortico	
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 751 g/mol	
Colour	: white. Beige.	
Odour	: No data available.	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 112.5 - 113.5 °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	: 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 cond	itions (see section 7).	
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions	s of use.	
10.4. Conditions to avoid		
Protect from sunlight. Keep away from heat, hot surface	es, 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 t	emperature. Thermal decomposition generates : Carbon oxides (CO, CO2).	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects	Oral: Fatal if swallowed	
······································	Not classified	
Acute toxicity (inhalation)	Not classified	
Salinomycin (53003-10-4)		
LD50 oral	50 mg/kg - Mouse	
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	
	Based on available data, the classification criteria are not met	
Carcinogenicity	Not classified	
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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	
Salinomycin (53003-10-4)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
Salinomycin (53003-10-4)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Salinomycin (53003-10-4)	
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 14: Transpo				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	I		1	1
3462	3462	3462	3462	3462
14.2. UN proper shippin	14.2. UN proper shipping name			
TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	Toxins, extracted from living sources, solid, n.o.s.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.
Transport document descr	iption			
UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Salinomycin), 6.1, II, (D/E)	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Salinomycin), 6.1, II	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Salinomycin), 6.1, II	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Salinomycin), 6.1, II	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Salinomycin), 6.1, II
14.3. Transport hazard o	class(es)			
6.1	6.1	6.1	6.1	6.1
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according to Regulation (EC) No. 19	007/2006 (REACH) with its am	endment Regulation (EU) 2015/830			
6	6	6	6	6	
14.4. Packing group					
14.5. Environmental haza					
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	available				
14.6. Special precautions	for user				
Overland transport					
Classification code (ADR)	: T	2			
Special provisions (ADR)	: 2	10, 274			
Limited quantities (ADR)	: 5	00g			
Excepted quantities (ADR)	: E	4			
Packing instructions (ADR)		002, IBC08			
Special packing provisions (AD	R) : B	4			
Mixed packing provisions (ADR Portable tank and bulk containe	,	1P10 3			
(ADR) Portable tank and bulk container special provisions : TP33					
(ADR)	_				
Tank code (ADR)		: SGAH, L4BH			
Tank special provisions (ADR)		U15, TE19			
Vehicle for tank carriage		: AT : 2			
Transport category (ADR)					
Special provisions for carriage - Special provisions for carriage - unloading and handling (ADR)	Loading, : C	V13, CV28			
Special provisions for carriage -		9, S19			
Hazard identification number (K	(emler No.) : 6	0			
Orange plates		60 3462			
Tunnel restriction code (ADR)	: D				
EAC code	: 2	Х			
Transport by sea					
Special provisions (IMDG)	: 2	10, 274			
Packing instructions (IMDG)	: P	: P002			
IBC packing instructions (IMDG	) : IE	3C08			
IBC special provisions (IMDG)	: B	21, B4			
Tank instructions (IMDG)	: T	3			
Tank special provisions (IMDG)	: T	P33			
EmS-No. (Fire)	: F	-A			
EmS-No. (Spillage)	: S				
Stowage category (IMDG)	age category (IMDG) : B				
Properties and observations (IM	to	oxins from plant, animal or bact oxins that are contained in infect wallowed, by skin contact or by	tious substances should be cl		
Air transport		· · ·			
PCA Excepted quantities (IATA	) : E	4			
PCA Limited quantities (IATA)		644			
PCA limited quantity max net qu					
PCA packing instructions (IATA		•			
PCA may not quantity (IATA)	,	55 Fka			

PCA max net quantity (IATA)

: 25kg

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CAO packing instructions (IATA)	: 676
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A43
ERG code (IATA)	: 6L
	. 0L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 210, 274, 802
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2
Rail transport	
Classification code (RID)	: T2
Special provisions (RID)	: 210, 274
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9
Hazard identification number (RID)	: 60
14.7. Transport in bulk according to Annex	I 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 Salinomycin 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

<b>SECTION 16: Other in</b>	nformation
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-s	tatements:
A suite Tax 2 (Onel)	

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
H300	Fatal if swallowed.	

### 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.