

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 02/01/2019 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	: Nalidixic acid sodium salt		
IUPAC name	: Sodium 1-ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylate		
EC-No.	: 222-159-7		
CAS-No.	: 3374-05-8		
Product code	: 75525039		
Formula	: C12H11N2NaO3		
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			
Industrial/Professional use spec	: Laboratory chemicals Industrial For professional use only		
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	r.molekula.com		
1.4. Emergency telephone number			
	+44 (0) 7590 545705		
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	Ire		
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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			
Substance type	: Mono-constituent		
Name	Product identifier	%	
Nalidixic acid sodium salt	(CAS-No.) 3374-05-8 (EC-No.) 222-159-7	100	
Full text of H-statements: see section 16	· · · · · · · · · · · · · · · · · · ·	÷	
2.2 Mixtures			

3.2. Mixtures Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If possible show this sheet, if no available show packaging or label. 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 experiencing respiratory symptoms: 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 skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/effects	: Harmful if swallowed.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. irritation (itching, redness, blistering). Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: Dust from this product may cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May produce an allergic reaction. Symptoms similar to those listed under inhalation. Ingestion may cause nausea, vomiting and diarrhea.
4.2 Indication of any immediate modi	as attention and aposist treatment peeded

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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	ince or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from heat, sparks and flame.
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 ec	uipment and emergency procedures	
General measures	: Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition. Avoid dust formation.	
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. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not touch or walk on the spilled product.	
Measures in case of dust release	: Keep 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.	
Emergency procedures	: Ventilate area.	

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid 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. Minimise generation of dust. Store away from other materials.

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	: Provide local exhaust or general room ventilation. Avoid creating or spreading dust.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product. 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	ig any incompatibilities
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	: reducing agents. Oxidising agents. Strong bases. Alkali metals. Ammonia. Peroxides.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: 2 - 8 °C
7.3. Specific end use(s)	
No additional information available	

No additional information available

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. Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Always wash hands after handling the product. 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:

Eye protection.			
Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure			
Туре	Use	Characteristics	Standard
Face shield, Safety glasses	Dust	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			
Type Standard			

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982
Respiratory protection:	

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask

1 5	3 3 1 31		11 1
Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре Р2	Dust protection	EN 143

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and cher		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 254.22 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	: > 280 °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	or use, storage and transport.	
Stable under recommended handling and storage cor	nditions (see section 7)	
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal condition	ons of use.	
10.4. Conditions to avoid		
Keep away from heat, hot surfaces, sparks, open flan	nes and other ignition sources. No smoking.	
10.5. Incompatible materials		
reducing agents. Oxidizing agent. Strong bases. Alka	li metals. Ammonia. Peroxides.	
10.6. Hazardous decomposition products		
0	bus decomposition products should not be produced. 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. (Based on available data, the classification criteria are not met)	
Acute toxicity (dermal)	: Not classified	
	· Not classified	
Acute toxicity (inhalation)		
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)	
Additional information	: Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)	
Additional information	: Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. (Based on available data, the classification criteria are not met)	
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)	
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	

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Nalidixic acid sodium salt (3374-05-8)		
IARC group	4 - Probably not carcinogenic to humans	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
Additional information	: Based on available data, the classification criteria are not met	
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)	
Additional information	: Based on available data, the classification criteria are not met	
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)	
Additional information	: Based on available data, the classification criteria are not met	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	
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 (Based on available data, the classification criteria are not met)	
Chronic aquatic toxicity :	Not classified (Based on available data, the classification criteria are not met)	
12.2. Persistence and degradability		
Nalidixic acid sodium salt (3374-05-8)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Nalidixic acid sodium salt (3374-05-8)		
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil		
Nalidixic acid sodium salt (3374-05-8)		
Ecology - soil	No data available.	
12.5. Results of PBT and vPvB assessment		
Nalidixic acid sodium salt (3374-05-8)		
This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria	a of REACH regulation, annex XIII	
12.6. Other adverse effects		
Additional information :	itional 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

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	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	

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No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated **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

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

Nalidixic acid sodium salt is not on the REACH Candidate List Nalidixic acid sodium salt is not on the REACH Annex XIV 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		
	: 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 (Oral)	Acute toxicity (oral), Category 4	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Sens. 1	Skin sensitisation, Category 1	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

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