

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/2/2019 Version: 1.0

SECTION 1: Identification of the substan	ce/mixture and of the company	/undertaking		
1.1. Product identifier				
Product form	: Substance			
Substance name	: Ofloxacin			
IUPAC name	: (+/-)-9-fluoro-2, 3-dihydro-3-methyl-10-(1, 4-benzoxazine-6-carboxylic acid	4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1, 2, 3-de]-		
EC-No.	: 680-263-1			
CAS-No.	: 82419-36-1			
Product code	: 11654280			
Formula	: C18H20FN3O4			
Product group	: Raw material			
1.2. Relevant identified uses of the substance	or mixture and uses advised agai	nst		
1.2.1. Relevant identified uses				
Main use category :	Laboratory use, Industrial use, Profession	al use		
Industrial/Professional use spec	For professional use only			
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the safety data s	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.n	nolekula.com			
1.4. Emergency telephone number				
Emergency number : +4	4 (0) 7590 545705			
SECTION 2: Hazards identification				
2.1. Classification of the substance or mixtur	9			
Classification according to Regulation (EC) No. 1272/2008 [CLP]				
Not classified				
Adverse physicochemical, human health and envir	onmental effects			
No additional information available				
2.2. Label elements				
Not classified.				
2.3. Other hazards				
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				
SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%		
Ofloxacin	(CAS-No.) 82419-36-1	100		
	(EC-No.) 680-263-1			
2.2 Mixtures	1			

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.

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

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 eff	ects, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate media	cal attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media Suitable extinguishing media	- Foom Dry nounder Carbon disvide Water enroy Sand
0 0	: 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	
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). hydrogen fluoride. 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 measur	AS
6.1. Personal precautions, protective equip	
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).
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 aut	
6.3. Methods and material for containment a	
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.

Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Incompatible products	: Strong oxidisers.
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. Light sensitive. Protect from light.
7.2. Conditions for safe storage, including a Technical measures	: Ensure adequate ventilation, especially in confined areas.
Precautions for safe handling Hygiene measures	 Avoid creating or spreading dust. Provide local exhaust or general room ventilation. 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.
SECTION 7: Handling and storage 7.1. Precautions for safe handling	

Safety Data Sheet

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

Storage temperature	: 2 - 8 °C
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store away from heat. Store in a dry place. Store in a closed container. Store in a dark area.
7.3. Specific end use(s)	
No additional information available	
No additional information available	
No additional information available SECTION 8: Exposure controls	/personal protection
	/personal protection
SECTION 8: Exposure controls	/personal protection
SECTION 8: Exposure controls 8.1. Control parameters	/personal protection
SECTION 8: Exposure controls 8.1. Control parameters No additional information available	/personal protection
SECTION 8: Exposure controls 8.1. Control parameters No additional information available 8.2. Exposure controls	
SECTION 8: Exposure controls 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls:	

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 Standard Thickness (mm) Penetration EN 374 Disposable gloves Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 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 glasses Fine dust, 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 Туре Standard EN ISO 13982 Long sleeved protective clothing **Respiratory protection:** No respiratory protection needed under normal use conditions. [In case of inadequate ventilation] wear respiratory protection. Device Filter type Condition Standard Type P1 Dust mask Dust protection EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and ch	nemical properties		
Physical state	: Solid		
Appearance	: Powder.		
Molecular mass	: 361.37 g/mol		
Colour	: White to faint yellow.		
Odour	: No data available.		
Odour threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
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		

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

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 con	nditions (see section 7).			
	10.3. Possibility of hazardous reactions			
-	No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid	and anarka and flower and other ignition equirate. No emploine			
10.5. Incompatible materials	aces, sparks, open flames and other ignition sources. No smoking.			
Strong oxidizers.				
10.6. Hazardous decomposition products				
	n temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). hydrogen			
fluoride. Nitrogen 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			
Ofloxacin (82419-36-1)				
LD50 oral rat	3590 mg/kg			
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			
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			
	: Not classified			
STOT-repeated exposure 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

: Based on available data, the classification criteria are not met.

Additional information

symptoms

Potential adverse human health effects and

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

5 5 ()		
SECTION 12: Ecological informat 12.1. Toxicity	ion	
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Not classified	
12.2. Persistence and degradability		
Ofloxacin (82419-36-1)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Ofloxacin (82419-36-1)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asses	sment	
Ofloxacin (82419-36-1)		
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

Ecology - waste materials

: Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment.

SECTION 14: Transport information

n accordance with ADR / RID / IMDG / IATA / ADN				
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 o	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 haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available			
14.6. Special precautions	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				
14.7. Transport in bulk a	ccording to Annex II of M	arpol and the IBC Code		
Not applicable				

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

SECTION 15: Regulatory information		
	lations/logislation specific for the substance or mixture	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
15.1.1. EU-Regulations		
No REACH Annex XVII restrictions		
Ofloxacin is not on the REACH Candidate List		
Directive 2012/18/EU (SEVESO III)		
15.1.2. National regulations		
Germany		
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed	
SZW-lijst van mutagene stoffen	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed	
15.2. Chemical safety assessment		
No chemical safety assessment has been carried ou	t 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.

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.