

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/13/2019 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	: Picloram
IUPAC name	: 4-amino-3,5,6-trichloro-2-pyridinecarboxylic acid
EC-No.	: 217-636-1
CAS-No.	: 1918-02-1
Product code	: 90028337
Formula	: C6H3Cl3N2O2
Product group	: Raw material
1.2. Relevant identified uses of the substant	
1.2.1. Relevant identified uses	Č.
Main use category	: Laboratory use,Industrial use,Professional 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	a sheet
Supplier	
Scafell Organics Molekula Ltd	
Lingfield Way	
Darlington - Éngland	
T +44 (0) 1949 823777 / +44 (0) 7590 545705	
info@molekula.com / kbowen@molekula.com - www 1.4. Emergency telephone number	<u></u>
	+44 (0) 7590 545705
SECTION 2: Hazards identification	
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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			
Name	Product identifier	%	
Picloram (CAS-No.) 1918-02-1 100 (EC-No.) 217-636-1			

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,	both acute and delayed
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache.
Symptoms/effects after skin contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical att Get immediate medical advice/attention.	tention 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 substa	ance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). hydrogen chloride. 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.

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	

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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.

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	iny 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 oxidisers. Strong acids. Strong bases. Acid anhydrides. Acid chlorides.
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)	

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.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:							
The protective gloves to b	be used mu	ist comply w	ith the specifications o	f the regulation 2016/425	and the resul	tant standard	I EN 374
Туре	Material		Permeation	Thickness (mm)	Thickness (mm) Penetrati		Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fou designed to protect again			ble in the immediate v	icinity of any potential ex	posure. Use e	ye protection	according to EN 166
Туре		Use		Characteristics		Standard	
Safety goggles Fine dust, I		Fine dust, D	Dust	tightly fitting safety goggles, With side shields		EN 166	
Skin and body protectio	on:						
Emergency safety showe clothing readily available			n the immediate vicinit	y of any potential exposu	re. Keep suita	ble chemica	lly resistant protective
Туре				Standard			
Protective clothing (with elasticated cuffs and closed neck)		EN ISO 13982					
Respiratory protection:							
Keep self contained breat protection equipment is re			available for emergen	cy use. Where exposure	through inhala	tion may occ	cur from use, respirat
Device		Filter type		Condition		Standard	
Respiratory protective dev	vice with	Type P1 Ty	/ne P2	Dust protection		FN 14387	

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре Р1, Туре Р2	Dust protection	EN 14387

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 chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 241.46 g/mol	
Colour	: Off-white. Beige.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 200 °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	use, storage and transport.		
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. Strong acids. Strong bases. Acid anhy	/drides. Acid chlorides.		
10.6. Hazardous decomposition products			
	emperature. Thermal decomposition generates : Carbon oxides (CO, CO2). hydrogen		
chloride. Nitrogen oxides.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects	Not classified		
······································	Not classified		
Acute toxicity (inhalation) :	Not classified		
Picloram (1918-02-1)			
LD50 oral rat	4200 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
Skin corrosion/irritation :	Not classified		
Additional information :	Based on available data, the classification criteria are not met		
Serious eye damage/irritation :	Causes serious eye irritation.		
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		
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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			
Acute aquatic toxicity :	Not classified		
Chronic aquatic toxicity :	Harmful to aquatic life with long lasting effects.		
Picloram (1918-02-1)			
EC50 Daphnia 1	34.4 mg/l Daphnia magna (Water flea) 48hr		
12.2. Persistence and degradability			
Picloram (1918-02-1)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
Picloram (1918-02-1)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
Picloram (1918-02-1)			
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	: 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	

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14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information availa	able		,	
4.6. Special precautions for us	ser			
Overland transport				
lot regulated				
Fransport by sea				
lot regulated				
Air transport				
lot regulated				
nland waterway transport				
Not regulated				
Rail transport				
Not regulated				
14.7. Transport in bulk accordin Not applicable	ng to Annex II of M	larpol and the IBC Code		
SECTION 15: Regulatory inf				
5.1. Safety, health and enviror	imental regulation	s/legislation specific for	the substance or mixture	;
15.1.1. EU-Regulations				
No REACH Annex XVII restrictions Picloram is not on the REACH Candid	date List			
Directive 2012/18/EU (SEVESO III)				
15.1.2. National regulations				
Germany				
12th Ordinance Implementing the Fed mmission Control Act - 12.BImSchV	deral : Is r	not subject of the 12. BlmSch∖	/ (Hazardous Incident Ordinar	nce)
Netherlands				
SZW-lijst van kankerverwekkende sto	offen : The	e substance is not listed		
ZW-lijst van mutagene stoffen	: The	e substance is not listed		
NIET-limitatieve lijst van voor de voor jiftige stoffen – Borstvoeding	tplanting : The	e substance is not listed		
NIET-limitatieve lijst van voor de voor giftige stoffen – Vruchtbaarheid	tplanting : The	e substance is not listed		
NIET-limitatieve lijst van voor de voor jiftige stoffen – Ontwikkeling	tplanting : The	e substance is not listed		
15.2. Chemical safety assessm No chemical safety assessment has b		e substance or the mixture by	the supplier	
SECTION 16: Other information	tion			

 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:		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H319	Causes serious eye irritation.	
H412	Harmful to aquatic life with long lasting effects.	

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.