

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 8/23/2019 Version: 1.0

OFOTION 4. Identifications of the sector	and the trade of the providence of the second se
SECTION 1: Identification of the substa 1.1. Product identifier	nce/mixture and of the company/undertaking
Product form	: Substance
Substance name	: Bialaphos
IUPAC name	: L-2-Amino-4-[(hydroxy)(methyl)phosphinoyl]buthyryl-L-alanyl-L-alanine
EC-No.	: 609-147-0
CAS-No.	: 35597-43-4
Product code	: 14973551
Formula	: C11H22N3O6P
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 votorisons numbered
	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 - England T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	/.molekula.com
1.4. Emergency telephone number Emergency number	+44 (0) 7590 545705
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	Jre
2.1. Classification of the substance or mixtu	
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1	272/2008 [CLP]
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4	272/2008 [CLP] H302
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 2	272/2008 [CLP] H302 H315
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity — Single exposure, Cat	272/2008 [CLP] H302 H315 H319
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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			
D. I. SUDSIGIICES			
Name	Product identifier	%	
Bialaphos	(CAS-No.) 35597-43-4 (EC-No.) 609-147-0	100	

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	: Harmful if swallowed. Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

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

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	: None known.
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	3
6.1. Personal precautions, protective equipme	ent 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 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	s. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for cont	ainment 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	ny 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 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.

SECTION 8: Expo 8.1. Control parame	eters	rois/perso	onal protection				
No additional information 8.2. Exposure cont							
Appropriate engineer							
	•		e and safety procedures				
Personal protective e	U	iounar nygion					
void all unnecessary	• •						
,	•						
Materials for protecti	•						
Wear suitable protectiv	ve clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves	to be used mu	ust comply w	ith the specifications of t	he regulation 2016/425 a	nd the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetration Standard		
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11	EN 374		EN 374
Eye protection:							
Emergency eye wash designed to protect ag			ble in the immediate vici	nity of any potential expo	sure. Use e	ye protection	according to EN 166
Туре		Use		Characteristics		Standard	
Safety goggles		Fine dust, E	Dust	tightly fitting safety goggles, With EN 166 side shields			
Skin and body prote	ction:						
Emergency safety sho clothing readily availal			n the immediate vicinity	of any potential exposure	. Keep suita	ble chemicall	y resistant protective

Туре	Standard
Protective clothing (with elasticated cuffs and closed neck)	EN ISO 13982

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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
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.

SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 323.28 g/mol
Colour	: Off-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	: 159 - 161 °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 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.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature.
SECTION 11: Toxicological information
11.1. Information on toxicological effects

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EO) 2015/630		
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	
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	: May cause respiratory irritation.	
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		
	Not classified		
12.2. Persistence and degradability			
Bialaphos (35597-43-4)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
Bialaphos (35597-43-4)			
Bioaccumulative potential No data available.			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment	12.5. Results of PBT and vPvB assessment		
Bialaphos (35597-43-4)			
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.

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

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14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental haz	14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary informatio	n available				
14.6. Special precautions	o 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					
	-	s/legislation 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 Bialaphos 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.			

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

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.