

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 8/30/2019 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	: 4-Bromobenzoic acid
EC-No.	: 209-581-7
CAS-No.	: 586-76-5
Product code	: 37671652
Formula	: C7H5BrO2
Product group	: Raw material
1.2. Relevant identified uses of the substance	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	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	
	+44 (0) 7590 545705
SECTION 2: Hazards identification 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 Respiratory tract irritation Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available	272/2008 [CLP] H302 H315 H319 egory 3, H335
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP)	2008 [CLP] GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
0.0. Others because	
2.3. Other hazards This substance/mixture does not meet the PBT criter	

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/informati 3.1. Substances		
Name	Product identifier	%
4-Bromobenzoic acid	(CAS-No.) 586-76-5 (EC-No.) 209-581-7	100
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		ot available show packaging or label. Never give anything by n. Do not leave affected person unattended.
First-aid measures after inhalation		victim to fresh air and keep at rest in a position comfortable rtificial respiration if necessary. If breathing difficulties ention.
First-aid measures after skin contact		immediately all contaminated clothing, and wash r. Do not remove clothing if it sticks to the skin. If irritation
First-aid measures after eye contact	, , , , , , , , , , , , , , , , , , ,	of water. Remove contact lenses, if present and easy to do. In 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 effe	cts, both acute and delayed	
Symptoms/effects after inhalation	: Irritation to throat. Headache. C	ough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. R	Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. re	edness, itching, tears. stinging.
Symptoms/effects after ingestion		ng this material may result in health hazard. Symptoms of eakness, 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	: Carbon oxides (CO, CO2). hydrogen bromide.
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	
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.

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6.2. Environmental precautions

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

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 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: Expos	ure conti	rols/perso	nal protection				
8.1. Control parameters							
No additional information available							
· · · · · · · · · · · · · · · · · · ·	8.2. Exposure controls						
Appropriate engineerin	•						
Handle in accordance wit	-	istrial nyglene	e and safety procedures.				
Personal protective equ	-						
Avoid all unnecessary ex	posure.						
Materials for protective	e clothing:						
Wear suitable protective	clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ust comply wi	th the specifications of th	ne regulation 2016/425 a	and the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect agai			ble in the immediate vicir	nity of any potential expo	osure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles		Fine dust, D	Just	tightly fitting safety goggles, With EN 166 side shields			
Skin and body protecti	ion:						
Emergency safety show clothing readily available			n the immediate vicinity o	of any potential exposure	e. Keep suita	able chemicall	y resistant protective
Туре	Type Standard						
Protective clothing (with elasticated cuffs and closed neck) EN ISO 13982							
Respiratory protection	:						
Keep self contained brea protection equipment is			available for emergency	use. Where exposure th	rough inhala	ation may occu	ur from use, respiratory

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Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P1, Type P2	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 chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 201.02 g/mol	
Colour	: Off-white. Beige.	
Odour	: No data available.	
Odour threshold	: No data available	
рH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 252 - 254 °C lit.	
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. Thermal decomposition generates : Carbon oxides (CO, CO2). hydrogen
bromide.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
4-Bromobenzoic acid (586-76-5)	
LD50 oral	1059 mg/kg Mouse.
Skin corrosion/irritation	: Causes skin irritation.

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	This amenument regulation (EO) 2010/000
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		
	Not classified	
Chronic aquatic toxicity	Not classified	
12.2. Persistence and degradability		
4-Bromobenzoic acid (586-76-5)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
4-Bromobenzoic acid (586-76-5)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
4-Bromobenzoic acid (586-76-5)		
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 hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information	n 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 4-Bromobenzoic acid 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.