

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 9/3/2019 Version: 1.0

SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking	
1.1. Product identifier	nooning and of the company and chaking	
Product form	: Substance	
Substance name	: 8-Bromo-2'-deoxyadenosine	
IUPAC name	: (2R,3S,5R)-5-(6-amino-8-bromopurin-9-yl)-2-(hydroxymethyl)oxolan-3-ol	
CAS-No.	: 14985-44-5	
Product code	: 20909485	
Formula	: C10H12BrN5O3	
Product group	: Raw material	
1.2. Relevant identified uses of the substant	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	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		
	+44 (0) 7590 545705	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixtu	Ire	
Classification according to Regulation (EC) No. 1	272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302	
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	
Specific target organ toxicity — Single exposure, Cat	tegory 3, H335	
Respiratory tract irritation		
Full text of H statements : see section 16		
Adverse physicochemical, human health and env No additional information available	vironmental effects	
2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/ 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. 	

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

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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	%	
8-Bromo-2'-deoxyadenosine	(CAS-No.) 14985-44-5	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	: 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	: Irritation to throat. Headache. Cough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
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	
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). hydrogen bromide. 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 measure	S
6.1. Personal precautions, protective equipm	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	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.
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 in a dry place. Store in a closed container.
7.2 Creatific and use(a)	

7.3. Specific end use(s)

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

For analytical purposes.	Colemano rea			····			
SECTION 8: Expos	sure cont	rols/perso	onal protection				
3.1. Control parameter							
lo additional information							
.2. Exposure contro							
Appropriate engineerin	•						
	0	istrial hygien	e and safety procedures				
Personal protective eq	•						
Avoid all unnecessary e	xposure.						
Materials for protectiv	ve clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	o be used mu	ist comply wi	th the specifications of th	he regulation 2016/425 ar	nd the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect aga			ble in the immediate vici	nity of any potential expos	sure. Use e	ye protection a	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles	Fine dust, Dust		tightly fitting safety goggles, With side shields		EN 166		
Skin and body protect	tion:						
Emergency safety shov clothing readily availabl			n the immediate vicinity o	of any potential exposure.	Keep suita	ble chemicall	y resistant protective
Type Standard							
Protective clothing (with elasticated cuffs and closed neck) EN ISO 13982							
Respiratory protection	n:						
Keep self contained bre protection equipment is			available for emergency	use. Where exposure thr	ough inhala	tion may occu	ır from use, respirato

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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 properties		
9.1. Information on basic physical and cl Physical state	: Solid	
Appearance	: Powder.	
Appearance Molecular mass	: 330.14 g/mol	
Colour	-	
•	: Off-white. light yellow. yellow beige. : No data available.	
Odour		
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	
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		

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. Nitrogen oxides.

SECTION 11: Toxicological information	n	
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.	
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	
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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				
Chronic aquatic toxicity	: Not classified				
12.2. Persistence and degradability					
8-Bromo-2'-deoxyadenosine (14985-44-5)					
Persistence and degradability	No data available.				
12.3. Bioaccumulative potential					
8-Bromo-2'-deoxyadenosine (14985-44-5)					
Bioaccumulative potential	No data available.				
12.4. Mobility in soil					
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12.4. Mobility in soil					
12.4. Mobility in soil No additional information available					
12.4. Mobility in soilNo additional information available12.5. Results of PBT and vPvB assessment					
12.4. Mobility in soilNo additional information available12.5. Results of PBT and vPvB assessment8-Bromo-2'-deoxyadenosine (14985-44-5)	a of REACH regulation, annex XIII				
12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment 8-Bromo-2'-deoxyadenosine (14985-44-5) This substance/mixture does not meet the PBT criteria	a of REACH regulation, annex XIII				

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							
In 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 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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	. 1907/2000 (INLACIT) with its americ					
14.5. Environmental haz	zards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
No supplementary information	on available					
4.6. Special precaution	s for user					
Overland transport						
lot regulated						
ransport by sea						
lot regulated						
\ir transport lot regulated						
nland waterway transport						
lot regulated						
Rail transport						
lot regulated						
	according to Annex II of Ma	arpol and the IBC Code				
Not applicable						
SECTION 15: Regulate	ory information					
	environmental regulations	s/legislation specific for	the substance or mixtur	e		
5.1.1. EU-Regulations						
No REACH Annex XVII restri	ictions is not on the REACH Candidate	- List				
Directive 2012/18/EU (SEVE						
5.1.2. National regulations						
lo additional information ava						
5.2. Chemical safety as						
No chemical safety assessme	ent has been carried out for the	substance or the mixture by	the supplier			
SECTION 16: Other in	formation					
Data sources	: REGULATION (EC) December 2008 on	No 1272/2008 OF THE EUR classification, labelling and pa 67/548/EEC and 1999/45/EC	ackaging of substances and r	nixtures, amending and		
Other information	: None.					
Full text of H- and EUH-sta	atements:					
Acute Tox. 4 (Oral)	Acute toxicity (oral)	, Category 4				
Eye Irrit. 2	Serious eye damaç	ge/eye irritation, Category 2				
Skin Irrit. 2	Skin corrosion/irrita	tion, Category 2				
STOT SE 3	Specific target orga	an toxicity — Single exposure	, Category 3, Respiratory trad	ct irritation		
H302	Harmful if swallowe	ed.				
H315	Causes skin irritatio	on.				
H319		Causes serious eye irritation.				
H335		May cause respiratory irritation.				
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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.