

Buspirone hydrochloride Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 9/19/2019 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	: Buspirone hydrochloride		
IUPAC name	: 8-[4-[4-(2-Pyrimidinyl)-1-pipirazinyl]butyl]-8-azaspiro[4,5]decane-7,9-dione hydrochloride		
EC-No.	: 251-489-4		
CAS-No.	: 33386-08-2		
Product code	: 20299728		
Formula	: C21H31N5O2HCI		
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	<u>molekula.com</u>		
1.4. Emergency telephone number         Emergency 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 Acute toxicity (oral), Category 3 Full text of H statements : see section 16	272/2008 [CLP] H301		
Adverse physicochemical, human health and env No additional information available 2.2. Label elements	vironmental effects		
Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP)	2008 [CLP]		
	GHS06		
Signal word (CLP)	: Danger		
Hazard statements (CLP)	: H301 - Toxic if swallowed.		
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.		
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 criter	-		

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
Buspirone hydrochloride	(CAS-No.) 33386-08-2 (EC-No.) 251-489-4	100	

Safety Data Sheet

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

### 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 : If possible show this sheet, if not available show packaging or label. Never give anything by First-aid measures general 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. : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. First-aid measures after eye contact 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 : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. More severe symptoms are also possible. Symptoms/effects after skin contact : May cause skin irritation. Redness, pain. More severe symptoms are also possible. Symptoms/effects after eye contact : May cause severe irritation. redness, itching, tears. Blurred vision. Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.

### **4.3. Indication of any immediate medical attention and special treatment needed** Immediately call a POISON CENTER/doctor.

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 chloride gas. 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 meas	sures		
6.1. Personal precautions, protective equ	lipment and emergency procedures		
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, n 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	<ul> <li>Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.</li> </ul>		
Emergency procedures	: Ventilate area.		
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	nt 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.		

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

## 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 an	y 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.

**7.3. Specific end use(s)** For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Exposu	ure cont	rols/perso	onal protection					
8.1. Control paramete	ers							
No additional information a 8.2. Exposure control								
Appropriate engineering								
Handle in accordance with	•	strial hygien	e and safety procedure	S.				
Personal protective equi	ipment:							
Avoid all unnecessary exp	oosure.							
Materials for protective	clothing:							
Wear suitable protective	clothing, gl	oves and ey	e/face protection					
Hand protection:								
The protective gloves to I	be used mu	ust comply w	vith the specifications of	the regulation 2016/425	and the resul	tant standard	I EN 374	
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard	
Disposable gloves	e gloves Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 EN 374					EN 374		
Eye protection:								
Emergency eye wash fou designed to protect again			able in the immediate vio	cinity of any potential exp	oosure. Use e	ye protection	according to EN 166,	
Туре	ype Use Characteristics Standard							
Safety goggles, Face shi	Safety goggles, Face shield Fine dust, Dust		Dust	tightly fitting safety goggles, With side shields		EN 166	EN 166	
Skin and body protection	on:							
Emergency safety showe clothing readily available			in the immediate vicinity	of any potential exposu	re. Keep suita	able chemica	lly resistant protective	
Туре				Standard				
Total impervious protectiv prevent any contact with			oots must be worn to	EN ISO 13982				
Respiratory protection:	:							
Keep self contained brea protection equipment is r			available for emergenc	y use. Where exposure	through inhala	ation may occ	cur from use, respiratory	
Device		Filter type		Condition Standard				
Respiratory protective de a particle filter	evice with	Туре РЗ		Dust protection		EN 143		

# Safety Data Sheet

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

### Other information:

Do not eat, drink or smoke during use.

SECTION & Develop and showing a	ve ve ovlige		
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Powder.		
Molecular mass	: 421.96 g/mol		
Colour	: White to off-white.		
Odour	: No data available.		
Odour threshold	: No data available		
рН	: 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			
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 chloride gas. Nitrogen oxides.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Buspirone hydrochloride (33386-08-2)	
LD50 oral rat	196 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

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

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
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			
Buspirone hydrochloride (33386-08-2)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
Buspirone hydrochloride (33386-08-2)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
Buspirone hydrochloride (33386-08-2)			
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			

<b>SECTION 13: Disposal considerations</b>	
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. Hazardous waste due to toxicity.

# SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
2811	2811	2811	2811	2811	
14.2. UN proper shippin	g name				
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	
Transport document description					
UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (Buspirone hydrochloride), 6.1, III, (E)	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (Buspirone hydrochloride), 6.1, III	UN 2811 Toxic solid, organic, n.o.s. (Buspirone hydrochloride), 6.1, III	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (Buspirone hydrochloride), 6.1, III	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (Buspirone hydrochloride), 6.1, III	

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

14.3. Transport hazard class(es)					
6.1	6.1	6.1	6.1	6.1	
Â					
		•		6	
14.4. Packing group	1			1	
III		III	III	III	
14.5. Environmental hazards					
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary information available					
14.6. Special precautions for user					
<b>Overland transport</b> Classification code (ADR)		Т2			
Special provisions (ADR)		274, 614			
Limited quantities (ADR)		5kg			
Excepted quantities (ADR)		E1			
Packing instructions (ADR)		P002, IBC08, LP02, R001			
Special packing provisions (A	,	B3			
Mixed packing provisions (ADR)		: MP10			
Portable tank and bulk container instructions (ADR)		T1			
Portable tank and bulk container special provisions (ADR)		TP33			
Tank code (ADR)		SGAH, L4BH			
Tank special provisions (ADR)		TU15, TE19			
Vehicle for tank carriage		AT 2			
Transport category (ADR) Special provisions for carriage - Bulk (ADR)		VC1, VC2, AP7			
Special provisions for carriage - Duik (ADR) Special provisions for carriage - Loading, unloading and handling (ADR)		CV13, CV28			
Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.)		: S9 : 60			
Orange plates		- <b>60</b>			
		2811			
Tunnel restriction code (ADR) EAC code		E 2X			
Transport by sea					
Special provisions (IMDG)		223, 274			
Packing instructions (IMDG)		P002			
IBC packing instructions (IMDG)		IBC08			
IBC special provisions (IMDG)		B3			
Tank instructions (IMDG)		T1			
Tank special provisions (IMDG)		TP33 F-A			
EmS-No. (Fire)		S-A			
EmS-No. (Spillage) Stowage category (IMDG)		: A			
Properties and observations (IMDG)		: Toxic if swallowed, by skin contact or by inhalation.			
Air transport					
PCA Excepted quantities (IATA)		E1			
PCA Limited quantities (IATA)		Y645			
PCA limited quantity max net quantity (IATA)		10kg			
PCA packing instructions (IAT	A) :	670			

# Safety Data Sheet

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

PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 274, 614, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	:T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: T2
Special provisions (RID)	: 274, 614
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60
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 Buspirone hydrochloride 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. 3 (Oral)	Acute toxicity (oral), Category 3		
H301	Toxic if swallowed.		

### 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.