

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 8/20/2019 Version: 1.0

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Substance
Substance name	
UPAC name	: Benzyldimethyltetradecylammonium chloride
	: Myristalkonium chloride
EC-No.	: 205-352-0
CAS-No.	: 139-08-2
Product code	: 49352047
Formula	: C23H42CIN
Product group	: Raw material
.2. Relevant identified uses of the su	bstance or mixture and uses advised against
.2.1. Relevant identified uses	
lain use category	: Laboratory use,Industrial use,Professional use
ndustrial/Professional use spec	: For professional use only
Jse of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.
.2.2. Uses advised against No additional information available	
.3. Details of the supplier of the safet	y data sheet
Supplier Scafell Organics Molekula Ltd Lingfield Way Darlington - England Γ +44 (0) 1949 823777 / +44 (0) 7590 545705 nfo@molekula.com / kbowen@molekula.com	5 - <u>www.molekula.com</u>
.4. Emergency telephone number Emergency number	: +44 (0) 7590 545705
SECTION 2: Hazards identification 2.1. Classification of the substance or	
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 4	H302
cute toxicity (dermal), Category 4	H312
kin corrosion/irritation, Category 1B	H314
lazardous to the aquatic environment — Acu	te Hazard, Category 1 H400
ull text of H statements : see section 16	
Adverse physicochemical, human health a	nd environmental effects
No additional information available	nu environmental enects
2.2. Label elements	
abelling according to Regulation (EC) No. lazard pictograms (CLP)	. 1272/2008 [CLP]
Signal word (CLP)	GHS07 GHS05 GHS09
	: Danger : H302+H312 - Harmful if swallowed or in contact with skin.
lazard statements (CLP)	H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	 P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. 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. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
	EN (English)

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

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 3.1. Substances	on ingredients		
Name	Product identifier	%	
Benzyldimethyltetradecylammonium chloride	(CAS-No.) 139-08-2 (EC-No.) 205-352-0	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, I	both acute and delayed
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May be harmful if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring. Cracking of the skin. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye burns. Blurred vision. redness, itching, tears. stinging. More severe symptoms are also possible.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing this material may result in health hazard. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. 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	ince 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.

SECTION 6: Accidental release measure	9S
6.1. Personal precautions, protective equipm	
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.

Safety Data Sheet

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

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. No	tify authorities if product enters sewers or public waters.
6.3. Methods and material for containn	nent 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	sure controls/perso	onal protection			
8.1. Control parame	ters				
No additional informatio	n available				
8.2. Exposure contr	ols				
Appropriate engineeri	ng controls:				
Handle in accordance w	vith good industrial hygiene	e and safety procedures.			
Personal protective ec	uipment:				
Avoid all unnecessary e	xposure.				
Materials for protectiv	ve clothing:				
Wear suitable protectiv	e clothing, gloves and eye	e/face protection			
Hand protection:					
The protective gloves t	o be used must comply wi	th the specifications of th	ne regulation 2016/425	and the resultant stan	dard EN 374
Type	Material	Permeation	Thickness (mm)	Penetration	Standard

TypeMaterialPermeationThickness (mm)PenetrationStandardDisposable glovesButyl rubber6 (> 480 minutes)0.3EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

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

Туре		Standard				
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product		EN ISO 13982				
Respiratory protection:						
Keep self contained breathing appa protection equipment is recommend	ratus readily available for led	emergency ι	use. Where exposure thre	ough inhala	tion may occur from use, resp	iratory
Device	Filter type		Condition		Standard	
Respiratory protective device with a particle filter	Туре Р3		Dust protection		EN 14387	

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pro 9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 368.04 g/mol
Colour	: White to off-white.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 56 - 62 °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. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.
hydrogen chloride.

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

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
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	: 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 :	Very toxic to aquatic life.	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
Benzyldimethyltetradecylammonium chloride	(139-08-2)	
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Benzyldimethyltetradecylammonium chloride	(139-08-2)	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Benzyldimethyltetradecylammonium chloride (139-08-2)		
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		
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				
In accordance with ADR / RIL) / IMDG / IATA / ADN			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	'	<u>'</u>		
3261	3261	3261	3261	3261
L	1	1		

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

		14.11011111034141011 (20) 2010/000		
14.2. UN proper shipping	g name			
CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.			CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Transport document descr	Transport document description			
UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethyltetradecyla mmonium chloride), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethyltetradecyla mmonium chloride), 8, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 3261 Corrosive solid, acidic, organic, n.o.s. (Benzyldimethyltetradecyla mmonium chloride), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethyltetradecyla mmonium chloride), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethyltetradecyla mmonium chloride), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	lass(es)			
8	8	8	8	8
14.4. Packing group		1		
	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary informatio	n available	,		
14.6. Special precautions	s for user			
Overland transport				
Classification code (ADR) Special provisions (ADR)	: C4 : 27			
Limited quantities (ADR)	: 27 : 5k			
Excepted quantities (ADR)	: E1	-		
Packing instructions (ADR)		02, IBC08, LP02, R001		
Special packing provisions (A	DR) : B3			
Mixed packing provisions (AD		P10		
Portable tank and bulk container instructions : T1 (ADR)				
Portable tank and bulk contain (ADR)	ner special provisions :TP	33		
Tank code (ADR)		GAV, L4BN		
Vehicle for tank carriage	-			
Transport category (ADR) Special provisions for carriage	: 3 - Bulk (ADR) : VC			
Hazard identification number		31, VC2, AP7		
Orange plates	:	0.0		
	-	80 3261		
Tunnel restriction code (ADR) EAC code	: E : 2X			
Transport by sea				
Special provisions (IMDG)	: 22	3, 274		
Packing instructions (IMDG)		02, LP02		
IBC packing instructions (IMD				
IBC special provisions (IMDG	,			
Tank instructions (IMDG)	: T1 G) : TP	33		
Tank special provisions (IMD0 EmS-No. (Fire)	э) : ГР : F-4			
0/00/0040 () (============ 4.0)				0/0

Safety Data Sheet

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

EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C4
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C4
Special provisions (RID)	: 274
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)	: SGAV, L4BN
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 80

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

Benzyldimethyltetradecylammonium chloride 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-state	ments:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
8/20/2019 (Version: 1.0)	EN (English) 7	

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

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

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.