

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/12/2019 Version: 1.0

SECTION 1: Identification of the substar	ce/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: Dequalinium chloride	
IUPAC name	: 4-amino-1-[10-(4-amino-2-methylquinolin-1-ium-1-yl)decyl]-2-methylquinolin-1-ium dichloride	
EC-No.	: 208-330-9	
CAS-No.	: 522-51-0	
Product code	: 32481998	
Formula	: C30H40Cl2N4	
Product group	: Raw material	
1.2. Relevant identified uses of the substanc	e 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.l	<u>nolekula.com</u>	
1.4. Emergency telephone number		
Emergency number : +4	44 (0) 7590 545705	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixtur	'e	
Classification according to Regulation (EC) No. 12	72/2008 [CLP]	
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	
Specific target organ toxicity — Single exposure, Category 3, H335 Respiratory tract irritation		
Full text of H statements : see section 16		
Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)		
	$\mathbf{v}$	
	GHS07	
Signal word (CLP)	: Warning	
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.	
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust, fume.</li> <li>P280 - Wear protective clothing, eye protection, face protection, protective gloves.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>	
2.3. Other hazards		

### 2.3. Other hazards

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

3.1. Substances				
Name	Product identifier	%		
Dequalinium chloride	(CAS-No.) 522-51-0 (EC-No.) 208-330-9	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		t available show packaging or label. Never give anything b n. Do not leave affected person unattended.		
First-aid measures after inhalation	for breathing. Give oxygen or ar	<ul> <li>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.</li> </ul>		
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	: 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, i Itching.	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.		
Symptoms/effects after eye contact	: Causes serious eye irritation. re	dness, itching, tears. stinging.		
Symptoms/effects after ingestion	: May cause irritation to the diges	: May cause irritation to the digestive tract. Abdominal pain, nausea.		
1.3 Indication of any immediate modic	al attention and special treatment	noodod		

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	nce or mixture
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.

<b>SECTION 6: Accidental release mea</b>	ECTION 6: Accidental release measures			
6.1. Personal precautions, protective ed	quipment and emergency procedures			
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. N sparks. Eliminate all sources of ignition.	lo flames, no		
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 access to unauthorized personnel. Do not touch or walk on the spilled product contact with skin, eyes and clothing.			
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, low lying areas (basements, workpits etc).	especially		
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing appa chemically protective clothing.	aratus and		
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.

### 7.3. Specific end use(s)

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

For analytical purposes.					inary purpor		
SECTION 8: Expo		rols/persc	onal protection				
8.1. Control parameters No additional information available							
<b>3.2. Exposure contro</b>							
ppropriate engineeri							
	-		e and safety procedures				
Personal protective eq	-		,	-			
void all unnecessary e	• •						
Materials for protectiv	•						
Wear suitable protectiv	e clothina al	oves and eve	/face protection				
· · ·	o olotining, gi						
Hand protection:							
The protective gloves to	o be used mu	ust comply wi	th the specifications of t	he regulation 2016/425 a	nd 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 fe designed to protect aga			ble in the immediate vici	nity of any potential expo	sure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
			EN 166				
Skin and body protec	tion:						
Emergency safety show clothing readily availab			n the immediate vicinity	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 protectio	n:						
Keep self contained bre protection equipment is			available for emergency	use. Where exposure the	ough inhala	ition may occi	ur 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 & Reveised and chamical m		
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 527.57 g/mol	
Colour	: white.	
Odour	: No data available.	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 310 °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). Hydrogen
chloride gas. Nitrogen oxides.

	A /7
: Based on available data, the classification criteria are not met	
: Causes serious eye irritation.	
: Based on available data, the classification criteria are not met	
: Causes skin irritation.	
: Not classified	
: Not classified	
: Not classified	
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	: Not classified : Not classified : Causes skin irritation. : Based on available data, the classification criteria are not met : Causes serious eye irritation. : 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			
Dequalinium chloride (522-51-0)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
Dequalinium chloride (522-51-0)	Dequalinium chloride (522-51-0)		
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
Dequalinium chloride (522-51-0)			
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 / 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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14.5. Environmental haza	ards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information	ı available		,1	.1	
14.6. Special precautions					
Overland transport					
Not regulated					
Fransport by sea					
Not regulated					
Air transport					
Not regulated					
nland waterway transport					
Not regulated					
Rail transport					
Not regulated	cording to Annov	I of Morrel and the IPC Code			
Not applicable	cording to Annex I	II of Marpol and the IBC Code			
SECTION 15: Regulator					
15.1. Safety, health and e	nvironmental regu	lations/legislation specific for	the substance or mixture	e	
5.1.1. EU-Regulations					
	41				
No REACH Annex XVII restrict Dequalinium chloride is not on		e l ist			
Directive 2012/18/EU (SEVES)					
5.1.2. National regulations					
Germany					
I2th Ordinance Implementing t mmission Control Act - 12.Blm		: Is not subject of the 12. BlmSch	V (Hazardous Incident Ordinal	nce)	
Netherlands					
SZW-lijst van kankerverwekkei	nde stoffen	: The substance is not listed			
SZW-lijst van mutagene stoffer	n	: The substance is not listed			
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding		: The substance is not listed			
VIET-limitatieve lijst van voor de voortplanting jiftige stoffen – Vruchtbaarheid		: The substance is not listed			
NIET-limitatieve lijst van voor o giftige stoffen – Ontwikkeling	le voortplanting	: The substance is not listed			
Denmark					
Danish National Regulations		: Young people below the age of	18 years are not allowed to us	e the product	
15.2. Chemical safety ass No chemical safety assessment		t for the substance or the mixture by	<i>t</i> he supplier		
SECTION 16: Other info	ormation				
Data sources		ON (EC) No 1272/2008 OF THE EUF	ROPEAN PARLIAMENT AND	OF THE COUNCIL of 16	
		008 on classification, labelling and p			
Other information	: None.	rectives 67/548/EEC and 1999/45/E	o, and amending Regulation (	EC) NO 1907/2000.	
Full text of H- and EUH-stat	tements:				
Eye Irrit. 2	Serious eye	e damage/eye irritation, Category 2			
Skin Irrit. 2	Skin corrosi	ion/irritation, Category 2			
STOT SE 3		get organ toxicity — Single exposure	e. Category 3. Respiratory trac	ct irritation	
H315	Causes skir		, <u> </u>		
H319		ious 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.