

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 10/17/2019 Version: 1.0

SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: Capecitabine	
IUPAC name	: 5'-Deoxy-5-fluoro-N-((pentyloxy)carbonyl)cytidine	
EC-No.	: 604-948-1	
CAS-No.	: 154361-50-9	
Product code	: 50910414	
Formula	: C15H22FN3O6	
Product group	: Raw material	
1.2. Relevant identified uses of the substan	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	v.molekula.com	
1.4. Emergency telephone number		
Emergency number : +44 (0) 7590 545705		
SECTION 2: Hazards identification 2.1. Classification of the substance or mixto		
Classification according to Regulation (EC) No. 1		
Germ cell mutagenicity, Category 2	H341	
Carcinogenicity, Category 1B	H350	
Reproductive toxicity, Category 1B	H360Df	
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)		
	GHS08	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	: H341 - Suspected of causing genetic defects. H350 - May cause cancer.	
	H360Df - May damage the unborn child. Suspected of damaging fertility.	
Precautionary statements (CLP)	 H360Df - May damage the unborn child. Suspected of damaging fertility. P201 - Obtain special instructions before use. P263 - Avoid contact during pregnancy and while nursing. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. 	

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

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SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
Capecitabine	(CAS-No.) 154361-50-9 (EC-No.) 604-948-1	100	
Full text of H-statements: see section 16			

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	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling.
Symptoms/effects after eye contact	: May cause slight irritation. stinging. Redness, pain.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Ingestion may cause nausea and vomiting.
Chronic symptoms	: May damage the unborn child. Suspected of damaging fertility. May cause cancer. Suspected of causing genetic defects.

4.3. Indication of any immediate medical attention and special treatment needed If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Sand. Water spray. Carbon dioxide. Foam.
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 fluoride. 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	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	nent 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	: Do not attempt to take action without suitable protective equipment. 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. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. 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.

		rois/perso	onal protection				
3.1. Control parame No additional informatic	ters n available						
3.2. Exposure contr							
Appropriate engineeri							
	-		e and safety procedures				
Personal protective ed	•	,0	51				
Avoid all unnecessary e							
,	•						
Materials for protection	ve clotning:						
Wear suitable protectiv	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves t	o be used mu	ust comply wi	ith the specifications of t	he regulation 2016/425 ar	nd the result	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Butyl rubbe	er	6 (> 480 minutes)	0.3			EN 374
Eye protection:							
Emergency eye wash t designed to protect ag			ble in the immediate vici	nity of any potential expos	sure. Use e	ye protection	according to EN 166
Туре		Use		Characteristics		Standard	
Safety goggles, Face s	Safety goggles, Face shield Fine dust, Dust		tightly fitting safety goggles, With EN 166 side shields				
Skin and body protec	tion:						
Emergency safety sho clothing readily availab			n the immediate vicinity	of any potential exposure.	Keep suita	ble chemicall	y resistant protective
Туре				Standard			
		avec and ha	ots must be worn to	EN ISO 13982			

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Respiratory protection: Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Air-Purifying Respirator (APR), reusable	Туре РЗ	Protection for Solid particles, Mist formation, Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 0. Physical and chamical n	vo no stilo n	
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline powder.	
Molecular mass	: 359.35 g/mol	
Colour	: White to off-white.	
Odour	: No data available.	
Odour threshold	: No data available	
Н	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 116 - 117 °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)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Water: 26 g/l at 20 °C	
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 normal conditions of use.
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
luoride. Nitrogen oxides.
SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified

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Capecitabine (154361-50-9)	
LD50 oral rat	> 2000 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
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Suspected of causing genetic defects.
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer.
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: May damage the unborn child. Suspected of damaging fertility.
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	
1 5	Not classified	
Chronic aquatic toxicity :	Not classified	
Capecitabine (154361-50-9)		
LC50 fish 1	> 867 mg/l Oncorhynchus mykiss (rainbow trout) 96hr	
EC50 Daphnia 1	> 850 mg/l Daphnia magna (Water flea) 48hr	
ErC50 (algae)	200 mg/l Selenastrum capricornutum (green algae) 72hr	
NOEC chronic algae	14 mg/l Selenastrum capricornutum (green algae) 72hr	
12.2. Persistence and degradability		
Capecitabine (154361-50-9)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Capecitabine (154361-50-9)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Capecitabine (154361-50-9)		
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

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	· · · · ·			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			1
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	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
14.5. Environmental haz	ards		I	I
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatic	n available			
4.6. Special precautions	s for user			
Overland transport Not regulated				
Air transport Not regulated nland waterway transport				
Not applicable SECTION 15: Regulate 15.1. Safety, health and of 15.1.1. EU-Regulations No REACH Annex XVII restric Capecitabine is not on the RE Directive 2012/18/EU (SEVES 15.1.2. National regulations No additional information ava 15.2. Chemical safety as	environmental regulations ACH Candidate List SO III)	s/legislation specific for		•
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SDS EU (REACH Annex II)

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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.