

Actinomycin D Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/8/2019 Version: 1.0

SECTION 1: Identification of the sub-	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Actinomycin D
IUPAC name	: 2-Amino-(N,N)-1-bis(hexadecahydro-6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaoxo 1H-pyrrolo[2,1]-[1,4,7,10,13] oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H- phenoxazine-1,9-dicarboxamide
EC-No.	: 200-063-6
CAS-No.	: 50-76-0
Product code	: 32117981
Formula	: C62H86N12O16
Product group	: Raw material
1.2. Relevant identified uses of the subst	ance 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	loto choot
1.3. Details of the supplier of the safety o	1010 311001
Supplier	
Scafell Organics Molekula Ltd	
Lingfield Way	
Darlington - Éngland	
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - <u>v</u>	www.molekula.com
1.4. Emergency telephone number	
Emergency number	: +44 (0) 7590 545705
SECTION 2: Hazards identification 2.1. Classification of the substance or m	ivturo
Classification according to Regulation (EC) N	
Acute toxicity (oral), Category 1	H300
Carcinogenicity, Category 1A	H350
Reproductive toxicity, Category 1A	H360
Full text of H statements : see section 16	
Adverse physicochemical, human health and No additional information available	environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No. 12	
Hazard pictograms (CLP)	
	GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H300 - Fatal if swallowed. H350 - May cause cancer. H360 - May damage fertility or the unborn child.
Precautionary statements (CLP)	: P263 - Avoid contact during pregnancy and while nursing.

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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

3.1. Substances			
Name	Product identifier	%	
Actinomycin D	(CAS-No.) 50-76-0 (EC-No.) 200-063-6	100	

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	: 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. More severe symptoms are also possible.
Symptoms/effects after ingestion	: Fatal 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.
Chronic symptoms	: May cause cancer. May damage fertility. May damage the unborn child.
4.3. Indication of any immediate medical at	tention 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	ance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). 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 measur	es
6.1. Personal precautions, protective equip	ment 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.

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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. Not	ify authorities if product enters sewers or public waters.		
6.3. Methods and material for containm	ent 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. Strong acids. Strong bases.
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: Expo 8.1. Control parame		rols/perso	onal protection						
No additional information									
8.2. Exposure conti	rols								
Appropriate engineer	ing controls:								
Handle in accordance v	with good indu	strial hygien	e and safety procedures	3.					
Personal protective e	quipment:								
Avoid all unnecessary e	exposure.								
Materials for protecti	ve clothing:								
Wear suitable protectiv	ve clothing, gl	oves and eye	e/face protection						
Hand protection:									
The protective gloves	to be used mu	ust comply w	ith the specifications of t	the regulation 2016/425 a	nd the resul	tant standard	EN 374		
Туре	Material	aterial Permeation Thickness (mm) Penetration Standard							
Disposable gloves	Nitrile rubb	ober (NBR) 6 (> 480 minutes)		0.11			EN 374		
Eye protection:									
Emergency eye wash designed to protect ag			ble in the immediate vic	inity of any potential expo	sure. Use e	ye protection	according to EN 166,		
Туре		Use		Characteristics		Standard			
Safety goggles, Face	shield	Fine dust, Dust		tightly fitting safety goggles, With side shields		EN 166			
Skin and body protect	ction:								
Emergency safety sho	wers should b	e available i	n the immediate vicinity	of any potential exposure	. Keep suita	ble chemicall	ly resistant protective		

iy p ۲ ιy clothing readily available for emergency use

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Туре		Standard	
Total impervious protective suits, glup revent any contact with the product	· · · · · · · · · · · · · · · · · · ·	EN ISO 13982	
Respiratory protection:			
Keep self contained breathing appa protection equipment is recommend		cy use. Where exposure thro	bugh inhalation may occur from use, respiratory
Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION & Physical and chemical are	nortico
SECTION 9: Physical and chemical pro 9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 1255.42 g/mol
Colour	: orange. red.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 251 - 253 °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. Strong acids. Strong bases.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Fatal if swallowed.

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Additional information: Based on available data, the classification criteria are not metSerious eye damage/irritation: Not classifiedAdditional information: Based on available data, the classification criteria are not metRespiratory or skin sensitisation: Not classifiedAdditional information: Based on available data, the classification criteria are not metGerm cell mutagenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metGerm cell mutagenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metCarcinogenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metCarcinogenicity: Nay cause cancer.Additional information: Based on available data, the classification criteria are not metReproductive toxicity: May damage fertility or the unborn child.Additional information: Based on available data, the classification criteria are not metReproductive toxicity: May damage fertility or the unborn child.Additional information: Based on available data, the classification criteria are not metSTOT-single exposure: Not classified	
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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 : Based on available data, the classification criteria are not met. symptoms	

SECTION 12: Ecological information		
12.1. Toxicity		
	Not classified	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
Actinomycin D (50-76-0)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Actinomycin D (50-76-0)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Actinomycin D (50-76-0)		
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. Hazardous waste due to toxicity.

SECTION 14: Transpo In accordance with ADR / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number		I	I	
3462	3462	3462	3462	3462

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	according to Regulation (EC/No. 1907/2000 (REACH) with its amendment Regulation (EO/2015/650			
14.2. UN proper shippin	g name			
TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	Toxins, extracted from living sources, solid, n.o.s.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.
Transport document descr	iption			
UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Actinomycin D), 6.1, II, (D/E)	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Actinomycin D), 6.1, II	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Actinomycin D), 6.1, II	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Actinomycin D), 6.1, II	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Actinomycin D), 6.1, II
14.3. Transport hazard o	class(es)			
6.1	6.1	6.1	6.1	6.1
6	6	6	6	6
14.4. Packing group			-	
ll	II	II	II	II
14.5. Environmental haz	ards	I	I	
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 informatio	n available			
14.6. Special precautions	s for user			
Overland transport				
Classification code (ADR)	: T2			
Special provisions (ADR) Limited quantities (ADR)		0, 274 Da		
Excepted quantities (ADR)	: 500 : E4			
Packing instructions (ADR)		02, IBC08		
Special packing provisions (A				
Mixed packing provisions (AD		P10		
Portable tank and bulk contain (ADR)	Portable tank and bulk container instructions : T3			
Portable tank and bulk contain (ADR)	ner special provisions : TP	33		
Tank code (ADR)	: SG	SAH, L4BH		
Tank special provisions (ADR	,	15, TE19		
Vehicle for tank carriage	: AT			
Transport category (ADR)	: 2	1		
Special provisions for carriage Special provisions for carriage	o ()	1 (13, CV28		
unloading and handling (ADR)	, S19		
Special provisions for carriage Hazard identification number	1 ()	, פוס		
Orange plates		60 3462		
Tunnel restriction code (ADR)				
EAC code	: 2X			
Transport by sea		=.		
Special provisions (IMDG)		0, 274		
Packing instructions (IMDG) IBC packing instructions (IMD	: P0 (G) : IB0			
IBC special provisions (IMDG		1, B4		

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Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Toxins from plant, animal or bacterial sources which contain infectious substances or toxins that are contained in infectious substances should be classified in class 6.2. Toxic is swallowed, by skin contact or by inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y644
PCA limited quantity max net quantity (IATA)	: 1kg
PCA packing instructions (IATA)	: 669
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 676
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A43
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 210, 274, 802
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2
Rail transport	
Classification code (RID)	: T2
Special provisions (RID)	: 210, 274
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
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 – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9
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

ID No. 863)

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Actinomycin D is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV;

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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 :	ther information : None.	
Full text of H- and EUH-statements:		
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
Carc. 1A	Carcinogenicity, Category 1A	
Repr. 1A	Reproductive toxicity, Category 1A	
H300	Fatal if swallowed.	
H350	May cause cancer.	
H360	May damage fertility or the unborn child.	

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.