

## SAFETY DATA SHEET

### Proscillaridin A

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

### 1.1. Product identifier

Product name	Proscillaridin A
Product number	47703809
CAS number	466-06-8
EC number	207-370-4
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	Not suitable for human consumption or veterinary purposes.
1.3. Details of the supplier of the	he safety data sheet

Supplier	Molekula Ltd.
	Lingfield Way,
	Darlington,
	DL1 4XX,
	United Kingdom
	+44 (0) 3302000333
	info@molekula.com

### 1.4. Emergency telephone number

+44 (0) 7769276927

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Acute Tox. 3 - H301
Environmental hazards	Not Classified
2.2. Label elements	
EC number	207-370-4
Hazard pictograms	
Signal word	Danger
Hazard statements	H301 Toxic if swallowed.

Precautionary statements	P264 Wash contaminated skin thoroughly after handling. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P330 Rinse mouth.
	P405 Store locked up.
	P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/info	ormation on ingredients
3.1. Substances	
Product name	Proscillaridin A
CAS number	466-06-8
EC number	207-370-4
Chemical formula	C30H42O8
SECTION 4: First aid measur	res
4.1. Description of first aid me	easures
General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation.
Skin contact	Rinse with water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
4.2. Most important symptom	s and effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause stomach pain or vomiting. May cause severe internal injury.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
4.3. Indication of any immedia	ate medical attention and special treatment needed
Notes for the doctor	Treat symptomatically. Keep affected person under observation.
SECTION 5: Firefighting mea	sures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	This product is toxic.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, pro	otective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	lling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is toxic. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle brekep packages without protective agriement. Do not reuse among a protections are seen to a protection of the protection of

handle broken packages without protective equipment. Do not reuse empty containers.

7.2. Conditions for safe storage, including any incompatibilities         Storage precautions       Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original containers upright. Protect containers from damage.         Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.         Storage class       Toxic storage.         7.3. Specific end use(s)       The identified uses for this product are detailed in Section 1.2.         SECTION 8: Exposure controls       Fersonal protection         8.1. Control parameters       Store adequate ventilation. Observe any occupational exposure limits for the product or ingredients.         Stypeface protection       Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.         Hand protection       No specific hand protection recommended.         Other skin and body protection       Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.         Respiratory protection       Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator with replaceable filter cartridges suitable for intended use should be used.         Fivironmental exposure       Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment with replaceable filter cartridges suitable for intended use should be used.	Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.Storage classToxic storage.7.3. Specific end use(s)The identified uses for this product are detailed in Section 1.2.SECTION 8: Exposure controls/Personal protection8.1. Control parameters8.2. Exposure controlsProtective equipmentImage: ControlsProtective equipmentImage: ControlsVersionVersio	7.2. Conditions for safe storag	e, including any incompatibilities
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		equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance	Crystalline powder.
Colour	White.
Odour	Not known.

Odour threshold	No information available.
рН	No information available.
Melting point	221°C/429.8°F
Initial boiling point and range	716.7°C/1322.06°F @ 760
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.33g/cm3
Solubility(ies)	Slightly soluble in the following materials: Chloroform. Methanol.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	530.70
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable under the prescribed storage conditions.
Stability <u>10.3. Possibility of hazardous</u>	
-	
10.3. Possibility of hazardous Possibility of hazardous	reactions
10.3. Possibility of hazardous Possibility of hazardous reactions	reactions
10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid	<i>reactions</i> No potentially hazardous reactions known.
<ul> <li>10.3. Possibility of hazardous</li> <li>Possibility of hazardous</li> <li>reactions</li> <li>10.4. Conditions to avoid</li> <li>Conditions to avoid</li> </ul>	<i>reactions</i> No potentially hazardous reactions known.
<ul> <li>10.3. Possibility of hazardous</li> <li>Possibility of hazardous</li> <li>reactions</li> <li>10.4. Conditions to avoid</li> <li>Conditions to avoid</li> <li>10.5. Incompatible materials</li> </ul>	reactions No potentially hazardous reactions known. There are no known conditions that are likely to result in a hazardous situation. Strong oxidising agents.

### **SECTION 11: Toxicological information**

11.1. Information on toxicolog	ical effects
Acute toxicity - oral	
Summary	Toxic if swallowed.
ATE oral (mg/kg)	100.0
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity -	repeated exposure
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	
Summary	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the
labeletter	length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause stomach pain or vomiting. May cause severe internal injury.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

### SECTION 12: Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity Summary	Based on available data the classification criteria are not met.
12.2. Persistence and degrada	bility
Persistence and degradability	The degradability of the product is not known.
12.3. Bioaccumulative potentia	d l
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.
12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vPvE	3 assessment
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal conside	erations
13.1. Waste treatment method	s
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
General information Disposal methods	products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product
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Disposal methods	products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
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Disposal methods          SECTION 14: Transport inform         General         14.1. UN number	products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. There is a provide the product of the relevant modal documentation using the data shown in this section.
Disposal methods SECTION 14: Transport inform General <u>14.1. UN number</u> UN No. (ADR/RID)	products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. <b>Patient</b> For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
Disposal methods SECTION 14: Transport inform General <u>14.1. UN number</u> UN No. (ADR/RID) UN No. (IMDG)	products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. <b>nation</b> 2811 2811

Proper shipping name (ADR/RID)	TOXIC SOLID, ORGANIC, N.O.S. (Proscillaridin A)
Proper shipping name (IMDG)	TOXIC SOLID, ORGANIC, N.O.S. (Proscillaridin A)
Proper shipping name (ICAO)	TOXIC SOLID, ORGANIC, N.O.S. (Proscillaridin A)
Proper shipping name (ADN)	TOXIC SOLID, ORGANIC, N.O.S. (Proscillaridin A)

### 14.3. Transport hazard class(es)

ADR/RID class	6.1
ADR/RID classification code	T2
ADR/RID label	6.1
IMDG class	6.1
ICAO class/division	6.1
ADN class	6.1

### Transport labels

### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	111
ICAO packing group	111
ADN packing group	111

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-A, S-A
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	60
Tunnel restriction code	(E)
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

#### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

#### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
·	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association.
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	CAS: Chemical Abstracts Service.
	ATE: Acute Toxicity Estimate.
	LC50: Lethal Concentration to 50 % of a test population.
	LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
	EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.
	vi vb. very i ersistent and very bloaccumulative.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity
Classification procedures according to SI 2019 No. 720	Acute Tox. 3 - H301: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	09/06/2022
Revision	1
SDS number	990
Hazard statements in full	H301 Toxic if swallowed.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.