



## Safety Data Sheet: *Forskolin*

### 1. Identification of the substance/mixture and of the Company

#### 1.1. Product identifiers

Product name	<i>Forskolin</i>	Formula	C <sub>22</sub> H <sub>34</sub> O <sub>7</sub>
Product Code	FOR	RTECS	QL6150000
CAS #	66575-29-9	Molecular weight	410.56
EC number #	266-410-9	Substance? Mixture?	Substance
Synonyms	7-beta-acetoxy-8,13-epoxy-1-alpha,6-beta,9-alpha-trihydroxyabd-14-en-11-one		
	<i>Boforsin</i>	<i>Colforsin</i>	<i>Coleonol</i>
Source	<i>Coleus forskohlii</i> (plant)	Date of version	9 October, 2024

#### 1.2. Intended uses of the substance or mixture and uses advised against

1.2.1. Intended use:	1.2.2. Uses advised against:
<i>Research and development.</i> <i>Laboratory reagent.</i> <i>To be used by professionals only</i>	<i>Not for drug,</i> <i>Not to be used in humans or animals.</i> <i>Not food additive</i>

<b>1.3. Details of the Manufacturer</b> <b>FERMENTEK Ltd</b> 4 Yatziv street, POB 47120 Jerusalem 97800, Israel Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: <i>Fermentek@Fermentek.com</i> Website: <i>WWW.Fermentek.com</i>	<b>1.4. Emergency Telephone number</b> <i>For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night:</i> <i>Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887</i>
---	--

*This company is the manufacturer of the product, and the supplier of the safety data sheet*

#### 1.5. Reach:

See section 15

### 2. Hazards' identification

#### 2.1. Classification of the substance or mixture

2.1.1. GHS Classification According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Acute toxicity :Dermal	Category 4	H312	Harmful in contact with skin
Acute toxicity: Oral	Category 5	H303	May be harmful if swallowed



## Safety Data Sheet: *Forskolin*

### 2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: : {  }

2.2.2. Signal word: {Warning}

2.2.3. Hazard Statements:

H312	Harmful in contact with skin
H303	May be harmful if swallowed

#### 2.2.4. GHS Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash face, hands and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P312	Call a POISON CENTER or doctor if you feel unwell.
P280	Wear protective gloves and protective clothing
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P363	Wash contaminated clothing before reuse

## 3. Composition/information on ingredients

Substance	
Substance name:	Forskolin
Concentration	<=100%
CAS Registry#:	66575-29-9
EC#:	266-410-9
Molecular Formula:	C <sub>22</sub> H <sub>34</sub> O <sub>7</sub>
Molecular Weight:	410.56
Classification	Acute Tox. 4 (H312) { Harmful in contact with skin}
Mixture?	Substance.

## 4. First Aid Measures

### 4.1. Description of First Aid Measures

General advice:	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration.



## Safety Data Sheet: *Forskolin*

### 4.2. Most important symptoms and effects, both acute and delayed

General symptoms	Bronchodilator agent, (Agents that cause an increase in the expansion of a bronchus or bronchial tubes). Cardiotonic agent: Agents that have a strengthening effect on the heart or that can increase cardiac output. Vasodilator agent: Agent causing dilation of the blood vessels.
------------------	---

### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
--------------------	------------------------

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known

### 5.2. Other information

Hazardous combustion products	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
----------------------	--

### 6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
---------------------------	---

### 6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
--------------------------	--

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.



## Safety Data Sheet: *Forskolin*

### 8. Exposure Controls/Personal Protection

#### 8.1. Control parameters

Control parameters	Components with workplace control parameters
--------------------	--

#### 8.2. Exposure controls

Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.
----------------------------------	---

#### 8.3. Personal protective equipment

[PPE=Personal Protection Equipment]	
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection:	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### 9. Physical and chemical properties

#### 9.1. Physical / chemical properties

Physical State at room temperature	Solid
Color	
No further safety relevant data are available	

### 10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions.: Carbon oxides

### 11. Toxicological information

#### 11.1. Information on toxicological effects

**To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.**

##### 11.1.1. Acute Toxicity

Oral toxicity	Oral LD50, Rodent- Rat 2500 mg/kg Oral LD50, Rodent- Mouse 3100 mg/kg
Serious eye damage	No data available



## Safety Data Sheet: *Forskolin*

Respiratory or skin sensitization/corrosion:	No data available
--	-------------------

### 11.1.2. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity / Teratogenicity:	No data available

### 11.1.3. Potential Health Effects

Eye	May cause eye irritation.
Skin	May cause skin irritation. May cause erythema and edema with crusting and scaling
Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhea
Inhalation	May cause respiratory tract irritation.

### 11.2. Additional information

RTECS number	QL6150000
Toxic effects / symptoms	Behavioral - changes in motor activity

## 12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

## 13. Disposal Considerations

### 13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

## 14. Transport information

### 14.1. UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	US DOT	US DOT	US DOT
UN Number UN proper shipping name	Not dangerous for transport ( <b>Forskolin</b> )	Not dangerous for transport ( <b>Forskolin</b> )	Not dangerous for transport ( <b>Forskolin</b> )	Not dangerous for transport ( <b>Forskolin</b> )
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories	Acute health hazard: No
California Proposition 65	This product does not contain any Proposition 65 chemicals.
EU ECHA Status	This product is registered with the EU ECHA, Number <b>266-410-9</b>



## Safety Data Sheet: *Forskolin*

	ANNEX III (criteria for 1 - 10 tonne registered substances): <b>LISTED</b> REACH: <b>PREREGISTRED</b>
Canada - DSL/NDSL	None of the chemicals in this product are listed on the DSL or NDSL lis

### 16. Other information

#### 16.1. Department issuing this SDS

- Quality systems and regulatory affairs

#### 16.2. General Disclaimer

- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
- The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.
- The 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, unless specified in the text.

#### 16.3. The users'/employers' responsibility:

- A risk assessment should be performed by the employer/user prior to use of this product.
- All recommendations included in this document, are advisory in nature.
- The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

#### 16.4. Comments:

#### 16.5. Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DOT:	US Department of Transportation
EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation
HMS:	Hazardous Materials Identification System (USA)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose, Median
NFPA:	National Fire Protection Association (USA)
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative and Toxic
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
Skin Irrit:	Skin corrosion/irritation
STOT RE:	Specific target organ toxicity (repeated exposure)
TLV:	Threshold Limit Value
vPvB:	very Persistent and very Bioaccumulative

#### 16.6. End of SDS