


 Safety Data Sheet: ***Forskolin from Fermentek***
**1. Identification of the substance/mixture and of the Company**
**1.1. Product identifiers**

|              |  |                     |  |
|--------------|--|---------------------|--|
| Product name | <a href="#">Forskolin</a>  | Formula             | C <sub>22</sub> H <sub>34</sub> O <sub>7</sub> |
| Product Code | FOR  | RTECS               | <a href="#">QL6150000</a>                      |
| CAS #        | <a href="#">66575-29-9</a>   | Molecular weight    | 410.56   |
| EC Number #  | <a href="#">266-410-9</a>  | Substance? Mixture? | Substance                                      |
| Synonyms     | 7-beta-Acetoxy-8,13-epoxy-1-alpha,6-beta,9-alpha-trihydroxylabd-14-en-11-one |                     |  |
|              | Boforsin   | Colforsin           | Coleonol                                       |
| Source       | Coleus forskohlii (plant)  | Date of version     | 4 July, 2021                                   |

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

|  |  |
|--|--|
| <b>1.2.1. Intended use:</b>  | <b>1.2.2. Uses advised against:</b>  |
| <ul style="list-style-type: none"> <li>Research and development.</li> <li>Laboratory reagent.</li> <li>To be used by professionals only</li> </ul> | <ul style="list-style-type: none"> <li>Not for drug,</li> <li>Not to be used in humans or animals.</li> <li>Not food additive</li> </ul> |

**1.3. Details of the supplier of the SDS**

**FERMENTEK Ltd**  
 4 Yatziv street, POB 47120  
 Jerusalem 97800,  
 Israel

Tel: +972 2 5853953  
 Fax: +972 2 5853943  
 eMail:  
 Fermentek@Fermentek.com  
 Website: WWW.Fermentek.com

**1.4. Emergency Telephone number**

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night:  
 Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887

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  |

**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. |

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|             |   |
|-------------|---|
| 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.  |

#### 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).<br>Cardiotoxic agent: Agents that have a strengthening effect on the heart or that can increase cardiac output.<br>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

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### 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.<br>Keep out of the reach of children.<br>Store at -20 °C. |
| Suitable packaging      | Must only be kept in original packaging.  |
| Incompatible materials: | None known based on information available.  |

## 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<br>Avoid contact with skin, eyes and clothing.<br>Wash hands before breaks and immediately after handling the product.<br>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            | <i>Solid</i> |
| Color   |              |
| No further safety relevant data are available |              |

## 10. Stability and reactivity

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

## 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                                | <i>Oral LD50, Rodent- Rat 2500 mg/kg<br/>Oral LD50, Rodent- Mouse 3100 mg/kg</i> |
| Serious eye damage                           | <i>No data available</i>   |
| Respiratory or skin sensitization/corrosion: | <i>No data available</i>   |

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

|   |   |
|---|---|
| Germ cell mutagenicity:                 | <i>No data available</i>  |
| Carcinogenicity:                        | <i>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.</i> |
| Reproductive toxicity / Teratogenicity: | <i>No data available</i>  |

#### 11.1.3. Potential Health Effects

|            |  |
|------------|--|
| Eye        | <i>May cause eye irritation.</i>   |
| Skin       | <i>May cause skin irritation. May cause erythema and edema with crusting and scaling</i> |
| Ingestion  | <i>May cause gastrointestinal irritation with nausea, vomiting and diarrhea</i>          |
| Inhalation | <i>May cause respiratory tract irritation.</i>   |

### 11.2. Additional information

|                          |   |
|--------------------------|---|
| RTECS number             | <i>QL6150000</i>                              |
| Toxic effects / symptoms | <i>Behavioral - changes in motor activity</i> |

## 12. Ecological Information

|                       |   |
|-----------------------|---|
| Eco-Toxicity          | <i>No further relevant information available</i>  |
| Other adverse effects | <i>No further relevant information available.</i> |

## 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                              | Not dangerous for transport | Not dangerous for transport | Not dangerous for transport | Not dangerous for transport |
| UN proper shipping name                | (Forskolin)                 | (Forskolin)                 | (Forskolin)                 | (Forskolin)                 |
| Transport Hazard Class & Packing Group | Not regulated               | Not regulated               | Not regulated               | Not regulated               |

### 14.2. Additional information

|                      |                |  |                      |  |
|----------------------|----------------|--|----------------------|--|
|                      |                |  | Not marine pollutant |  |
| Exempted quantities  | Not applicable |  |                      |  |
| De Minimis exemption | Not applicable |  |                      |  |

## 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><br>ANNEX III (criteria for 1 - 10 tonne registered substances): <b>LISTED</b><br>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. Date of revision:

Sunday, 4 July, 2021 09:07

### 16.2. Department issuing this SDS

Quality systems and regulatory affairs

### 16.3. 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.

### 16.4. 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.





## 16.5. Comments:

Deprecated CAS Registry number(s): None

## 16.6. Abbreviations and acronyms:

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

## 16.7. End of SDS

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