

## Safety Data Sheet: **Celastrol(Tripterine)**

### 1. **Identification of the Substance and of the Manufacturer**

#### 1.1. **Product identifiers**

Product name	<b>Celastrol(Tripterine)</b>	Formula	<b>C<sub>29</sub>H<sub>38</sub>O<sub>4</sub></b>
Product Code	<b>CEL</b>	RTECS	<b>NM2203500</b>
CAS #	<b>34157-83-0</b>	Molecular weight	<b>450.60</b>
EC Number #	<b>636-472-5</b>	Substance? Mixture?	<b>Substance</b>
Source	<b>Tripterygium wilfordii (plant)</b>	Date of version	<b>14 November, 2022</b>
Synonyms	<b>3-Hydroxy-2-oxo-24-nor-D:A-friedooleana-1(10),3,5,7-tetraen-29-oic Acid;          Tripterin</b>		

#### 1.2. **Intended uses of the Substance and uses advised against**

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

#### 1.3. **Details of the supplier of the safety data sheet**

##### 1.3.1. **The manufacturer and the supplier of the SDS**

<b>FERMENTEK ltd</b> 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: <a href="mailto:Fermentek@Fermentek.com">Fermentek@Fermentek.com</a> Website: <a href="http://WWW.Fermentek.com">WWW.Fermentek.com</a>
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*This company is the manufacturer of the product, and the supplier of the safety data sheet*

##### 1.3.2. **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*

## 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)**

*Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.*

***Some vendors specify the product may be hazardous if swallowed. We did not find any support to this claim.***

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

#### 2.2.1. **Pictogram: *None***

#### 2.2.2. **Signal word: { *None* }**

#### 2.2.3. **Hazard Statements**

*None*

#### 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.
P270	Do not eat, drink or smoke when using this product.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

### 3. Composition/information on ingredients

<i>Substance</i>	
Substance name:	Celastrol(Tripterine)
Concentration	<=100%
CAS Registry#:	34157-83-0
EC#:	636-472-5
Molecular Formula:	C <sub>29</sub> H <sub>38</sub> O <sub>4</sub>
Molecular Weight:	450.60
Classification	Not hazardous
Mixture?	Substance .

### 4. First Aid Measures

#### 4.1. Description of First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact:	Eye contact: Flush eyes with water as a precaution.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Skin Contact:	Wash off with soap and plenty of water.
Inhalation:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

General symptoms	No data available
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#### 4.3. Indication of any immediate medical attention and special treatment needed

	No data available
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### 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.
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## 6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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## 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.
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### 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. Protect from light.
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
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### 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.
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### 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 / powder
Color	RED
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, Nitrogen oxides (NOx)

## 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 estimate:	No quantitative data available
Serious eye damage	No data available
Respiratory or skin sensitization/corrosion:	No data available

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

Germ cell mutagenicity:	No data available
Carcinogenicity:	No component 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

### 11.2. *Additional information*

RTECS number	
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## 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*

	<i>US DOT</i>	<i>US IATA</i>	<i>US IMDG</i>	<i>US ADR/RID</i>
<i>UN Number UN proper shipping name</i>	<i>Not dangerous for transport (Celastrol(Tripterine))</i>	<i>Not dangerous for transport (Celastrol(Tripterine))</i>	<i>Not dangerous for transport (Celastrol(Tripterine))</i>	<i>Not dangerous for transport (Celastrol(Tripterine))</i>
<i>Transport Hazard Class &amp; Packing Group</i>	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>

### 14.2. *Additional information*

			<i>Not marine pollutant</i>	
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## 15. *Regulatory information*

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

<i>USA EPA / TSCA</i>	<i>This product is not listed on the USA EPA TSCA (it is for research)</i>
<i>EU ECHA Status</i>	<i>This product is registered with the EU ECHA, Number 636-472-5 ANNEX III: Not Listed REACH: Not Listed (as on November 2022)</i>

## 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. ***No-Copyright statement***



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### 16.5. ***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>RTECS:</i>	<i>Registry of Toxic Effects of Chemical Substances</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>

### 16.6. ***End of SDS***