



Safety Data Sheet: **Emodin**

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

1.1.Product identifiers

Product name	Emodin	Formula	C ₁₅ H ₁₀ O ₅
Product Code	EM	RTECS	CB7920600
CAS #	518-82-1	Molecular weight	270.20
EC Number #	208-258-8	Substance?Mixture?	Substance
Synonyms	 Archin Emodol Frangula emodin Frangulic acid Rheum emodin 		
		Date of version	7 September, 2020

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

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

1.3. Details of the supplier of the safety

eMail:

data sheet

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

fermentek@fermentek.com

Website: www.fermentek.com

Tel: +972 2 5853953

Fax: +972 2 5853943

1.5.Reach:

FERMENTEK ltd

Jerusalem 97800,

Israel

4 Yatziv street, POB 47120

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, Ingestion	Category 4	H303	May be harmful if swallowed



H:\installed SDS\SDS Emodin vers 09-2020.docx Page 1 of 6





2.2.GHS Label elements, including precautionary statements



2.2.1. Pictogram:

2.2.2. Signal word {WARNING}

2.2.3. GHS Hazard Statements

H303	May be harmful if swallowed	INGESTION cat 4 🚸
2.2	2.4. GHS Precautionary Statements	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.	
P264	Wash {hands} thoroughly after handling.	
P284	Wear respiratory protection	
2.2	2.5. GHS Response Phrases	

P308+313	IF EXPOSED OR CONCERNED: Get medical advice/attention
P301 + P312+ P330	IF SWALLOWED: Call a POISON CENTER/doctor. If you feel unwell
	Rinse mouth.

3. Composition/information on ingredients

Substance		
Substance name:	Emodin	
Concentration	100%	
CAS Registry#:	518-82-1	
EC#:	208-258-8	
Molecular Formula:	C15 H10 O5	
Molecular Weight:	270.20	
Classification	Acute Tox. 4; H303 ; May be harmful if swallowed Eye irritant	
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:	Flush eyes with water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a physician.
Inhalation:	If inhalled, 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

•	, ,		,	
Skin Contact:		No data available		



H:\installed SDS\SDS Emodin vers 09-2020.docx Page 2 of 6





Eye contact:	No data available
Ingestion:	No data available
Inhalation:	No data available

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

No data available

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.		

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. Reportedly, Light sensitive. Store at -20 °C.
Suitable packaging	
Incompatible materials:	None known based on information available.



H:\installed SDS\SDS Emodin vers 09-2020.docx Page 3 of 6





8. Exposure Controls/Personal Protection

8.1.Control parameters

Control parameters	Components with workplace control parameters		
8.2.Exposure contro	bls		
Appropriate engineering	Showers, Eyewash stations, Ventilation systems		
controls	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

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).
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
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)
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	White to yellowish powder
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 exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products	Carbon oxides







11. Toxicological information

11.1. Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

11.1.1. Acute Toxicity	No quantitative data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Group 3: Not classified as human carcinogen
Reproductive toxicity / Teratogenicity:	No data available
STOT-SE – single exposure (GHS):	Respiratory tract irritation
STOT-SE – repeated exposure (GHS):	No data available
Aspiration hazard:	No data available

11.2. Additional information

RTECS number	CB7920600
12. Ecological Information	
Eco Toxicity	No further relevant information available

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 IATA	US IMDG	US ADR/RID
UN Number	Not hazardous goods	Not hazardous goods	Not hazardous goods	Not hazardous goods
UN proper shipping name	Not regulated (<i>Emodin</i>)			
Transport Hazard Class &	Not hazardous goods	Not hazardous goods	Not hazardous goods	Not hazardous goods
Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

14.2. Addional information

Excepted quantities (EQ)	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)	
EU ECHA Status	This product is registered with the EU ECHA, Number 208-258-8	
	ANNEX III: Listed REACH: Preregistre	ed



H:\installed SDS\SDS Emodin vers 09-2020.docx Page 5 of 6





16. Other information

16.1. *Date of revision:*

• Monday, 7 September, 2020 12:09

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

- All recommendations below are advisory in nature.
- 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. End of SDS -



H:\installed SDS\SDS Emodin vers 09-2020.docx Page 6 of 6