





SDS Aloe emodin vers 02-2023=

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers				
Product name	<u>Aloe-emodin</u>	For	nula	C15H10O5
Product Code	AEM	RTE	CCS	CB6712200
CAS #	481-72-1	Mol	ecular weight	270.24 g/mol
ECHA#	207-571-7	Sub	stance? Mixture?	Substance
Synonyms	 Aloe-emodin Anthraquinone, 1,8-dihydroxy-3-hydroxymethyl- (chemical name) Rhabarberone 9,10-Anthracenedione, 1,8-dihydroxy-3-(hydroxymethyl)- 1,8-Dihydroxy-3-(hydroxymethyl)-9,10-anthracenedione 1,8-Dihydroxy-3-hydroxymethylanthraquinone 3-Hydroxymethylchrysazin 			
Source	Aloe Vera		Version Date	5 October, 2024
1.2. Intended	l uses of the Substance a	nd uses c	dvised against	
1.2.1. Intended	use:	1.2	2.2. Uses advised ag	ainst:
Research and development. Laboratory reagent. Reference material. Manufacturing of substances. To be used by professionals only			Not a drug, Not a food additive Not to be used in humans or animals.	
1.3. Contacts				
1.3.1. Details of the supplier of the SDS				
This company is the manufacturar of the product and the supplier of the safety data sheet				

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

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Hazards' identification 2.

2.1. Classification of the Substance

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

Skin Irritation	Cat.2	H315	Causes skin irritation <external sds=""></external>
Eye Irritation	Cat.2	H319	Causes serious eye irritation <external sds=""></external>
STOT/SE Respiration tract irritation	Cat.3	H335	May cause respiratory irritation <external sds=""></external>

2.2. GHS Label elements, including precautionary statements.

2.2.1. 2.2.2.	Pictogram: { Signal word: {Warning} Hazard Statements
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
2.2.3.	GHS Precautionary Statements
P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
2.2.4.	GHS Response Phrases:

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P302+P352: IF ON SKIN: wash with plenty of water

P332+P317: IF SKIN IRRITATION OCCURS: Get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+*P317*: If eye irritation persists: Get medical help.

P304+P340 IF INHALED: Get medical help.

P319: Get medical help if you feel unwell.

Composition/information on ingredients 3.

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Substance

Substance Name:	Aloe-emodin
Concentration	<=100%
CAS Registry#:	481-72-1
<i>EC</i> #:	207-571-7
Molecular Formula:	C15H1005
Molecular Weight:	270.24 g/mol
Classification	Irrit 2 (H315,H319,H335)
Mixture?	Substance

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4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.	
Eye contact:	Rinse out with plenty of water. Remove contact lenses.	
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.	
Inhalation:	If inhaled, move the person into fresh air.	
4.2. Most important symptoms and effects, both acute and delayed		
General symptoms	None known	
4.3. Indication of any in	nmediate medical attention and special treatment needed	
Note to physicians	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	None known		
media			
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

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

6.2. Environmental precautions

		Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
6	63 Mothods and materi	al for containment and cleaning un

6.3. Methods and material for containment and cleaning up

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Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a 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,

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	and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.
7. Handling and sto	rage
7.1. Precautions for safe	e 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.
8. Exposure Control	ls/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 fume-hood for routine work.
8.3. Personal protective	equipment
[PPE=Personal Protection Equ	upment]
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face 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)

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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 che	mical properties		
9.1. Physical/chemical	properties		
Physical State at room	Solid		
temperature			
Appearance	Powder, White		
No further safety relevant data	are available		
10. Stability and read	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	None under normal processing		

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Reactions

products

Hazardous combustion

11. Toxicological information

11.1. Information on toxicological effects

See section 5

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet. **11.1.1.** Acute Toxicity

Acute toxicity:	No Acute toxicity relevant data available			
Skin corrosion/irritation:	Yes			
Serious eye damage/eye irritation:	Yes			
Respiratory or skin sensitization/corrosion:	Yes			
11.1.2. Chronic toxicity				
Chronic toxicity	No data available			
11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)				
Germ cell mutagenicity:	EPA GENETOX PROGRAM 1988, Weakly Positive: Histidine reversion-Ames test (RTECS November, 2022)			
Carcinogenicity:	No data available			
<i>Reproductive toxicity / Teratogenicity:</i>	No data available			
11.2. Additional information				
RTECS number	CB6712200			
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General symptoms					
12. Ecological Information					
Eco-Toxicity	No data available				
Other adverse effects No data available					
13. Disposal Considerations					
13.1. Waste treatment methods					
Waste Disposal	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 Not classified as dangerous in the meaning of transport regulations.

	US DOT	ADR/RID	IATA	IMDG
UN Number UN proper shipping name	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin) Not marine pollutant
Transport Hazard Class & Packing Group	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin)	Not dangerous goods (Aloe-emodin)

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 207-571-7		
	REACH: PreRegistered		
	ANNEX III (criteria for 1 - 10 tonne registered substances): Listed		
	Reasons for listing:		
	a. Suspected carcinogen		
	b. Suspected hazardous to the aquatic environment.		
	c. Suspected mutagen		
	d. Suspected persistent in the environment		

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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 proces, unless specified in the text.

16.3. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the 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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Fermentek believes that no one can claim copyright on an SDS.

This sort of document is but a compendium of common knowledge and published facts.

Fermentek explicitly releases this document into the public domain.

16.5. Abbreviations and acronyms:

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Acute Tox.:	Acute toxicity	NDG	Not dangerous goods (for transport)			
CAS:	Chemical Abstracts Service	NFPA:	National Fire Protection Association USA			
DOT:	US Department of Transportation	NIOSH:	National Institute for Occupational Safety			
EINECS:	European Inventory of Existing Commercial Chemical Substances	OSHA:	Occupational Safety & Health			
Eye Dam.:	Serious eye damage/eye irritation	PBT:	Persistent, Bioaccumulative, and Toxic			
HSDB	Hazardous Substances Data Bank	PEL:	Permissible Exposure Limit			
HMIS:	Hazardous Materials Identification System (USA)	REL:	Recommended Exposure Limit			
IATA:	International Air Transport Association	Repr.:	Reproductive toxicity			
IMDG:	International Maritime Code for Dangerous Goods	RTECS:	<i>Registry of Toxic Effects of Chemical</i> <i>Substances</i>			
LC50:	Lethal concentration, Median	Skin Irrit:	Skin corrosion/irritation			
LD50:	Lethal dose median	STOT/SE	Specific target organs toxicity / single exposure			
LD50:	Lethal dose, Median	STOT/RE	Specific target organs toxicity / repeated exposure			
		TDL0	Toxic dose, least published			

16.6. End of SDS

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