

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 5

Revision date: 07/27/2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name: Aloe Emodin  
Product code: A2491

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Reagents

**1.3 Details of the supplier of the safety data sheet****Supplier:**

TCI Chemicals (India) Pvt. Ltd.  
Plot No. B-28, Phase II,  
5th Cross Street, MEPZ-SEZ, Tambaram,  
Chennai, Tamilnadu - 600045  
India  
Telephone: +91-44-2262 0909

1.4 Emergency telephone number: +91-44-2262 0909

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

PHYSICAL HAZARDS	Not classified
HEALTH HAZARDS	
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
ENVIRONMENTAL HAZARDS	Not classified

**2.2 Label elements****Pictograms or hazard symbols**

Signal word	Warning
Hazard statements	H315-Causes skin irritation. H319-Causes serious eye irritation.

**Precautionary statements****[Prevention]**

P264-Wash hands thoroughly after handling.

**[Response]**

P280-Wear protective gloves/eye protection/face protection.

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+P313-If eye irritation persists: Get medical advice/attention.

P302+P352-IF ON SKIN: Wash with plenty of soap and water.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P362-Take off contaminated clothing and wash before reuse.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Components:	Aloe Emodin
Percent:	>97.0%(HPLC)
CAS Number:	481-72-1
EC-No:	207-571-7
Synonyms:	1,8-Dihydroxy-3-(hydroxymethyl)anthraquinone
Chemical Formula:	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>

**SECTION 4: First aid measures****4.1 Description of first aid measures****A2491****Aloe Emodin**

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#### **SECTION 4: First aid measures**

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion:</b>	Get medical advice/attention if you feel unwell. Rinse mouth.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

#### **SECTION 5: Firefighting measures**

##### **5.1 Extinguishing media**

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

##### **5.2 Special hazards arising from the substance or mixture**

Carbon monoxide, Carbon dioxide

##### **5.3 Advice for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

##### **6.2 Environmental precautions**

Prevent product from entering drains.

##### **6.3 Methods and materials for containment and cleaning up**

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

##### **6.4 Reference to other sections**

For disposal see section 13.

#### **SECTION 7: Handling and storage**

##### **7.1 Precautions for safe handling**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

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

Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents.  
Heat-sensitive

##### **7.3 Specific end use(s)**

No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

##### **8.1 Control parameters**

No data available

##### **8.2 Exposure controls**

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

**Respiratory protection:**

Dust respirator. Follow local and national regulations.

**Hand protection:**

Protective gloves.

**Eye protection:**

Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:**

Protective clothing. Protective boots, if the situation requires.

#### **SECTION 9: Physical and chemical properties**

##### **9.1 Information on basic physical and chemical properties**

<b>Physical state (20°C):</b>	Solid
<b>Form:</b>	Crystal- Powder
<b>Colour:</b>	Yellow - Deep yellow red
<b>Odour:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	222°C
<b>Boiling point/range:</b>	No data available

## **SECTION 9: Physical and chemical properties**

Flash point:	No data available (Calculated value:>60°C)
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	
Slightly soluble:	Hot dimethylformamide(DMF)
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Oxidizing agents
10.6 Hazardous decomposition products	Carbon monoxide, Carbon dioxide

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute Toxicity:	
Skin corrosion/irritation:	
Serious eye damage/irritation:	
Germ cell mutagenicity:	mmo-sat 100 ug/plate (+S9) mmo-sat 10 ug/plate (-S9) dnd-mus-ori 4000 mg/kg/2D-I
Carcinogenicity:	
Reproductive toxicity:	
RTECS Number:	CB6712200

\*We judged that this product was not classified into Class 6.1 Toxic Substance of current edition of IATA Dangerous Goods Regulations(DGR) according to acute toxicity values and/or Quantitative Structure-Activity Relationship(QSAR).

## **SECTION 12: Ecological information**

12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant(PaM <sup>3</sup> /mol):	No data available
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
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### **SECTION 13: Disposal considerations**

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### **SECTION 14: Transport information**

<b>14.1 UN number</b>	Not listed
<b>14.2 UN proper shipping name</b>	
<b>ADR/RID</b>	Not listed
<b>IMDG/IMO</b>	Not listed
<b>ICAO/IATA</b>	Not listed
<b>14.3 Transport hazard class(es)</b>	
<b>ADR/RID</b>	Does not correspond to the classification standard of the United Nations
<b>IMDG/IMO</b>	Does not correspond to the classification standard of the United Nations
<b>ICAO/IATA</b>	Does not correspond to the classification standard of the United Nations
<b>14.4 Packaging group</b>	
<b>ADR/RID</b>	-
<b>IMDG/IMO</b>	-
<b>ICAO/IATA</b>	-
<b>14.5 Environmental hazards</b>	
<b>Marine pollutant</b>	-
<b>14.6 Special precautions for user</b>	No data available

This substance is not regulated by IATA/ICAO/ARD/RID/IMO/IMDG and is considered to be Non Hazardous for transport by Air/Rail/Road/Sea

### **SECTION 15: Regulatory information**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006</b>	Not listed
<b>15.2 Chemical safety assessment</b>	A chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

<b>Prepared by:</b>	TCI Chemicals (India) Pvt. Ltd.
<b>Issue date:</b>	07/27/2015

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.