

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Aloe-emodin
Synonyms	: Rhabarberone; 1,8-Dihydroxy-3-[hydroxymethyl]-anthraquinone; 3-(Hydroxymethyl)chrysazin; 1,8-Dihydroxy-3-hydroxymethylantraquinone.
CAS No.	: 481-72-1
EINECS/ELINCS	: 207-571-7
Brand	: SCC
Company	: Stanford Chemicals Company 23661 Birtcher Dr. Lake Forest, CA 92630 USA
Emergency Telephone No.	: +1 (949) 468 0555
Fax	: +1 (949) 812 6690
Website	: www.stanfordchem.com
Identified Uses	: Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Physical Hazards	Not classified
Health Hazards	Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

Pictograms or hazard symbols

GHS Signal Word: Warning



GHS Hazard Phrases:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

GHS Precaution Phrases:

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Response Phrases:

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

- 2.3 Adverse human health Causes serious eye irritation
- Effects and symptoms: Causes skin irritation.
 Material may be irritating to the mucous membranes and upper respiratory tract.
 May be harmful by inhalation, ingestion, or skin absorption.
 May cause respiratory system irritation.
 To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture

CAS No. & RTECS No.	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
481-72-1 CB6712200	Aloe-Emodin	80%, 95%, 98%	207-571-7 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335

4. FIRST AID MEASURES

4.1 Description of first aid measures :

In case of inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In case of skin contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In case of eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In case of ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
 Use water spray to cool fire-exposed containers.

Unsuitable extinguishing media A solid water stream may be inefficient.

5.2 Flammable properties and hazards No data available.

Flash point 311.9 °C .

Explosive limits LEL: No data.

UEL: No data.

Autoignition point: No data.

5.3 Fire fighting instructions As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and material for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in accordance with information listed on the product insert.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure parameters:

CAS No.	Partial Chemical Name	Britain EH40	France VL	OSHA TWA	ACGIH TWA	Europe	Other Limits
481-72-1	Aloe-emodin	No data	No data	No data	No data	No data	No data

8.2 Exposure controls

8.2.1 Engineering controls (Ventilation etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye protection: Safety glasses

Protective gloves: Compatible chemical-resistant gloves

Other protective clothing: Lab coat

Respiratory equipment (specify type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance practices:

Do not take internally.

Facilities storing or utilizing this material should be equipped with eyewash and a safety shower.

Wash thoroughly after handling. No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical states:	Solid, deep brown to pale orange fine powder
Odour:	Faint odour
Melting point:	223.50 °C. @ 760.00 mm Hg (434 °F)
Boiling point:	568.82 °C. @ 760.00 mm Hg (est)
Flash point :	311.9 °C
Evaporation rate :	No applicable information available.
Explosive limits:	LEL: No data. UEL: No data.
Vapor pressure (vs. Air or mmHg):	No applicable information available.
Vapour density (vs. Air = 1):	No applicable information available.
Specific gravity (Water = 1):	0.962 g/cm ³
Solubility in water:	Partly, 45.8 mg/L @ 25 °C (est)
Solubility notes:	Soluble in ethanol (with heating), methanol, chloroform; DMSO:50 mg/ml
Autoignition Pt:	No applicable information available.
Percent volatile:	No applicable information available.
Molecular formula & weight:	C ₁₅ H ₁₀ O ₅ 270.24

10. STABILITY AND REACTIVITY

Reactivity :	No data available.
Chemical stability :	Stable.
Stability note(s):	Stable if stored in accordance with information listed on the product insert.
Polymerization:	Will not occur
Conditions to avoid:	No data available
Incompatible materials :	Strong oxidizing agents.
Hazardous decomposition or byproducts:	Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

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

Chronic toxicological effects: Aloe-emodin - Investigated as a mutagen.

Only select Registry of Toxic Effects of Chemical Substances

(RTECS) data is presented here. See actual entry in RTECS for complete information.

RTECS Number: CB6712200

12. ECOLOGICAL INFORMATION

Toxicity: Avoid release into the environment. Run off from fire control or dilution water may cause pollution

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB assessment: No data available.

13. DISPOSAL CONSIDERATIONS

Waste disposal method: Dispose in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT Proper shipping name: Not dangerous goods.

DOT hazard class:

UN/NA number:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping name: Not dangerous goods.

UN number:

Hazard class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA shipping name: Not dangerous goods.

Additional transport: Transport in accordance with local, state, and federal regulations.

15. REGULATORY INFORMATION

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not available.

Chemical safety assessment: Not available.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.