



SAFETY DATA SHEET

according to Regulation (EC) No.-

Version 1.0

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Section 1. Product and Company Information

GHS Product Name: Cardamonin

Product Code: FLV-63-5

CAS: [19309-14-9]

Molecular Formula: C₁₆H₁₄O₄

2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-phenyl-2-propen-1-one; 1-(2,4-dihydroxy-6-methoxyphenyl)-3-phenylprop-2-en-1-one; 2',4'-dihydroxy-6'-methoxychalcone; Dihydroxymethoxychalcone; Alpinetin chalcone; (E)-Cardamonin; Cardamomin.

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Section 2. Hazards Identification

2.1 GHS classification

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS Acute toxicity, Oral (Category 4), H302

ENVIRONMENTAL HAZARDS Very toxic to aquatic life, H410

2.2 GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P501 Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) None identified

Section 3. Information on Basic Physical and Chemical Properties

Physical States:	[] Gas [] Liquid [X] Solid
Melting Point:	195-196°C
Boiling Point:	484.5±45.0 °C at 760 mmHg
Flash Pt:	182.7±22.2 °C
Evaporation Rate:	No data
Flammability (solid, gas):	Product is not flammable.
Explosive Limits:	LEL: No data. UEL: No data
Vapor Pressure (vs. Air or mm Hg):	0.0±1.3 mmHg at 25°C
Vapor Density (vs. Air = 1):	No data
Specific Gravity (Water = 1):	No data
Solubility in Water:	DMSO: ≥20mg/mL
Solubility Notes:	DMSO 100,0 g/l (soluble); Ethanol 5,0 g/l (soluble); DMF: 25 mg/ml; DMSO: 25 mg/ml; DMSO: PBS (pH 7.2) (1: 4): 0.2 mg/ml; Ethanol: 1 mg/ml
Autoignition Pt:	No data
Percent Volatile:	No data
Partition coefficient:	n-log Pow: 3,38 octanol/water
pH:	No data

Section 4. First aid measures

Description of first aid measures

If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see **section 2.2**).

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5. Fire Fighting Measures

Suitable extinguishing

Media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special protective:

equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental precautions

Should not be released into the environment.

General Information:

Use proper personal protective equipment as indicated in **Section 8**.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

Section 7. Handling and Storage

Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from direct sunlight

Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

Section 8. Exposure Controls / Personal Protection

Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters: Not set up

Personal protective equipment:

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Section 9. Stability and Reactivity

Reactivity

Stable under recommended transport or storage conditions.

Chemical Stability

Stable under normal temperatures and pressures. Light sensitive

Conditions to Avoid

Incompatible products. Excess heat. Exposure to light. Keep away from open flames, hot surfaces and sources of ignition.

Incompatibilities with Other Materials

Strong oxidising/reducing agents

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO₂) Nitrogen oxides, nitrogen.

Hazardous Polymerization

Has not been reported.

Section 10. Toxicological Information

Acute Toxicity:	Acute toxicity estimates Oral - 500,1 mg/kg
Skin corrosion/irritation:	May cause sensitization by skin contact
Serious eye damage/irritation:	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Germ cell mutagenicity:	No data
Carcinogenicity:	IARC = No data NTP = No data
Reproductive toxicity:	No data

Section 11. Ecological Information

Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution
Persistence and degradability:	Persistence is unlikely
Bioaccumulative potential:	No data
Mobility in soil:	No data
Results of PBT & vPvB assessment:	No data
Other adverse effects:	May be harmful to the aquatic environment.

Section 12. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 13. Transport Information

Hazards Class

Does not meet the criteria for classification as hazardous for transport.

UN proper shipping name ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

Section 14. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data

Chemical Safety Assessment

no data

Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

----End of safety data sheet----