

For Chemical Emergencies During Transportation:
USA and Canada: Call CHEMTREC 24 Hours at 1-800-424-9300
International: Call CHEMTREC 24 Hours at 1-703-527-3887
Account Number: CCN709805

1. PRODUCT AND COMPANY INFORMATION

Product Name: COUMARIN, NATURAL
Product Code: 70957
CAS #: 91-64-5

Company Name: The Lermond Company, LLC
13 Raritan Road
Oakland, NJ 07436
Phone: 201-896-3300

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health Hazards Acute toxicity, oral Category 3

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3
Hazardous to the aquatic environment, long-term hazard Category 3



Label elements

Signal word Danger

Hazard statement
H301: Toxic if swallowed.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statement
Prevention
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.

Response
P301+P310: IF SWALLOWED: Call a POISON CENTER/doctor.
P330: Rinse mouth.

Storage
P405: Store locked up.

Disposal
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) WARNING! May form combustible dust concentrations in air. Avoid breathing dust.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: COUMARIN 100% CAS Number: 91-64-5

4. FIRST-AID MEASURES

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin Contact: Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye Contact: Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion: Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Most important symptoms/effects, acute and delayed: Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate Medical attention and Special treatment needed: Not available.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Flash Point: 110.0°C (230.0°F)

Suitable Extinguishing Media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the Chemical: Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Fire may produce irritating, corrosive and/or toxic gases.

Special protective Equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/

Instructions:	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.
Specific methods:	Use water spray to cool unopened containers.
General fire hazards:	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Wash contaminated area with water. Collect and dispose of spillage as indicated in section 13 of the SDS. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Use only non-sparking tools. Avoid the generation of dusts during clean-up. Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. HANDLING AND STORAGE

Safe Handling:	Take precautionary measures against static discharges when there is a risk of dust explosion. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Do not handle or store near an open flame, heat or other sources of ignition. Assume that this material is capable of producing a dust explosion if ignited as a dust cloud. Take precautionary measures against static discharges. Avoid breathing vapor. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.
Safe Storage:	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values:	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection:
Hand protection: Wear appropriate chemical resistant gloves.
Other: Wear appropriate chemical resistant clothing. Use of an impervious apron recommended.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene Considerations: Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Crystalline
Vapor density @ 20°C: N/A
Relative Density @ 25°C: N/A
Melting point: 68°-70°C (154.4° - 158.0°F)
Flash point: 110.0°C (230.0°F)
Boiling point: 297°-299°C (566.6° - 570.2°F)

10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability: Material is stable under normal conditions.
Possibility of hazardous Reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation: Irritating to respiratory system.
Skin contact: Dust or powder may irritate the skin. May cause an allergic skin reaction.
Eye contact: Dust may irritate the eyes.
Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical, and toxicological Characteristics:

Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
Coumarin		
Acute		
<i>Oral</i>		
LD50	Rat	293 mg/kg

Skin Corrosion/irritation: Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye Irritation: Due to partial or complete lack of data the classification is not possible.

Respiratory or skin sensitization:
Respiratory sensitization: Due to partial or complete lack of data the classification is not possible.

Skin sensitization: : May cause an allergic skin reaction.

Germ cell mutagenicity: : Due to partial or complete lack of data the classification is not possible.

Carcinogenicity:

OSHA specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity: Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity- single exposure: Knowledge about health hazard is incomplete.

Specific target organ toxicity- repeated exposure: Knowledge about health hazard is incomplete.

Aspiration hazard: Due to partial or complete lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Coumarin		
Aquatic		
Crustacea	LC50 Water flea (Daphnia magna)	13.5mg/l, 48 hours
Fish	LC50 Guppy (Poecilia reticulata)	56 mg/l, 96 hours

Persistence and degradability: No data is available on the degradability of this substance.

Bioaccumulative Potential:

Bioconcentration
Leucisus idus melantus 3 d-46µg/l
Bioconcentration factor (BCF) <10

Mobility in soil:

No data available.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations:

Dispose in accordance with all applicable regulations.

Hazardous waste code:

The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

**Waste from residues/
unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Ground Shipping (DOT): NON-BULK

Proper Shipping Name: TOXIC SOLIDS, ORGANIC, N.O.S. (COUMARIN)
Hazard Class: 6.1(PGIII)
UN Number: 2811
Packing Group: III

Ground Shipping (DOT): BULK

Proper Shipping Name: TOXIC SOLIDS, ORGANIC, N.O.S. (COUMARIN)
Hazard Class: 6.1(PGIII)
UN Number: 2811
Packing Group: III

Air shipping (IATA):

Proper Shipping Name: TOXIC SOLIDS, ORGANIC, N.O.S. (COUMARIN)
Hazard Class: 6.1(PGIII)
UN Number: 2811
Packing Group: III

Ocean Shipping (IMDG):

Proper Shipping Name: TOXIC SOLIDS, ORGANIC, N.O.S. (COUMARIN)
Hazard Class: 6.1(PGIII)
UN Number: 2811
Packing Group: III

15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not listed.

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

16. OTHER INFORMATION

Disclaimer: This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customer.