



UNISOURCE CHEMICALS PRIVATE LIMITED

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PURPURIN

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: 9,10-Anthracenedione, 1,2,4-Trihydroxy-, C.I. 58205, C.I. 75410, Hydroxylizaric Acid, Purpurin, Purpurine, Smoke Brown g, 1,2,4-Trihydroxyanthrachinon (Czech), 1,2,4-Trihydroxyanthraquinone, Verantin.

Formula CAS No.: 81-54-9

Molecular Weight: 256.22

Chemical Formula: C₁₄H₈O₅

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Purpurin	81-54-9	ca 100%	No

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Dark red to brown needles. **Warning!** Causes eye and skin irritation. May cause digestive tract irritation. Causes respiratory tract irritation. Irritant.

Target Organs: No data found.

Potential Health Effects

Eyes: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Inhalation: Causes respiratory tract irritation. Can produce delayed pulmonary edema.

Chronic: Effect may be delayed.

4. FIRST AID MEASURES:

Eyes: Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid if irritation develops or persists..

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. **Do NOT** induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth to mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1, Flammability: 0, Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dust conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a tightly closed container, store in a cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA Final PELs</u>
Purpurin	None listed	None listed	None listed

OSHA Vacated PELs: Purpurin: No OSHA vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN149 must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Needles.

Appearance: Dark red to brown.

pH: Not available.

Odor: None reported.

Solubility: Slightly soluble.

Boiling Point: No information found.
Freezing/Melting Point: 253-256 Deg.C.
Vapor Pressure: No information available.
Vapor Density: No information found
Evaporation Rate: No information found.
Viscosity: No information available.
Decomposition Temperature: Not available.
Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS# 81-54-9: CB8200000

LD50/LC50: CAS# 81-54-9:Draize test, rabbit, eye, 500 mg/24H Mild;

Carcinogenicity: CAS# 81-54-9: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Tumorigenic: See RTECS.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Neurotoxicity: No information found.

Mutagenicity: Mutagenic effects have occurred in experimental animals.

Other Studies: Standard Draize Test: Administration into the eye(rabbit) = 500mg/24H (mild).

12. ECOLOGICAL INFORMATION:

No information available.

13 DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulation to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14 TRANSPORT INFORMATION:

No information available.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA: CAS# 81-54-9 is not listed in the TSCA inventory. It is for research and development use only.

Health and Safety Reporting List: None of the chemicals are listed on the Health and Safety Reporting

List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this product have a SNUR under TSCA.

SARA

Section 302 (RQ) and Section 302 (TPQ): None of the chemicals in this product have an RQ or a TPQ.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are considered Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE: CAS# 81-54-9 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN / INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives.

Hazard Symbols: XI

Risk Phrases: R 36/37/38 Irritating to eyes, skin, and respiratory system.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection): CAS# 81-54-9: No information available.

Canada DSL/NDSL: None of the chemicals in this product are listed on the DSL or NDSL list.

Canada WHMIS: This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER

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