



Research Products International Corp.

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME: D-LUCIFERIN, POTASSIUM SALT,
[4,5-DIHYDRO-2-(6-HYDROXY-2-BENZOTHAZOL)-4-THIAZOLECARBOXYLIC ACID]

COMMON NAME: D-LUCIFERIN, POTASSIUM SALT,

RPI CATALOG #: L37060

SUPPLIER'S NAME: Research Products International Corp.

SUPPLIER'S ADDRESS: 410 N. Business Center Dr.
Mt. Prospect, IL 60056

EMERGENCY CONTACT: 1-800-424-9300

OTHER INFORMATION: 847-635-7330

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS #: 115144-35-9

MOLECULAR FORMULA: $C_{11}H_7N_2O_3S_2K$

SECTION 3 - HAZARDS IDENTIFICATION

Label precautionary statements: Toxic. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Do not breathe dust.

Target organ(s): eyes, kidneys

SECTION 4 - FIRST-AID MEASURES

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact, immediately wash skin with soap and copious amounts of water. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. If swallowed, wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards: emits toxic fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

Refer to section 8.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Safety shower and eye bath. Mechanical exhaust required. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: yellow powder

Physical properties:

solubility: methanol-soluble

SECTION 10 - STABILITY AND REACTIVITY

Stability: stable.

Incompatibilities: strong oxidizing agents.

Hazardous combustion or decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

Hazardous polymerization: will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute effects: harmful if swallowed, inhaled, or absorbed through skin. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause damage to the heart and kidneys; gastrointestinal disturbances ; may cause convulsions. The toxicological properties have not been thoroughly investigated.

Target organ(s): Eyes, kidneys.

SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

Non-regulated.

SECTION 15 - REGULATORY INFORMATION

European information: Toxic. R 23/24/25, Toxic by inhalation, in contact with skin and if swallowed. R 36/37/38, Irritating to eyes, respiratory system and skin. S 45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36, Wear suitable protective clothing. S 22, Do not breathe dust. This product is subject to SARA section 313 reporting requirements.

SECTION 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. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.