



SAFETY DATA SHEET (MSDS)

Date of Preparation or Revision: September 18, 2001

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Catalog Number: 537059
Product Name: Propidium Iodide
Supplier: CALBIOCHEM®
P.O. Box 12087
La Jolla, CA 92039-2087
Telephone: (858) 450-5558
(800) 854-3417
Fax: (858) 453-3552
Emergency Contact: CHEMTREC®
(800) 424-9300 (within U.S.A.)
(703) 527-3887 (outside U.S.A.)

COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: Propidium Iodide
Hazardous Ingredient: Propidium Iodide
CAS Registry Number: 25535-16-4
Molecular Weight: 668.4
Molecular Formula: $C_{27}H_{34}I_2N_4$

HAZARDOUS IDENTIFICATION:

Acute Effects: Material may cause irritation to the eyes, skin, mucous membranes, and the upper respiratory tract.

Chronic Effects: There is limited evidence that Propidium Iodide is mutagenic in laboratory cell cultures. Until further testing has been done, it should be treated as a possible mutagen in humans.

FIRST AID MEASURES:

In cases of skin contact, wash immediately with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician.
In cases of eye contact, flush immediately with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
In cases of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician. If breathing stops, give artificial respiration and consult a physician.
In cases of ingestion, wash mouth out with water and consult the local poison center and a physician.

FIRE-FIGHTING MEASURE:

Extinguishing Media: Dry chemical powder, carbon dioxide, water spray, alcohol or polymer foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosive Hazards: Upon thermal decomposition, it may **EMIT TOXIC GASES.**

ACCIDENTAL RELEASE MEASURES:

Steps to be Taken if Material is Released or Spilled: Evacuate area. Wear a respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up and place in a suitable container. Avoid raising dust. Hold for appropriate disposal. Wash spill site and ventilate area after material pickup is complete.

HANDLING AND STORAGE:

Store in a tightly closed container in a +4°C refrigerator. Protect from light. Material is an irritant. Possible mutagen. Avoid contact with material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Protective Equipment: Wear suitable protective clothing, such as chemical resistant gloves and chemical safety goggles.

Respiratory Protection and Ventilation: Use a NIOSH/MSHA approved respirator. Handle in a chemical fume hood with adequate ventilation.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Dark red solid.
Melting Point: 224-228°C
Flash Point: N/A
Solubility: Soluble in water.

STABILITY AND REACTIVITY:

Stability: Stable under normal handling procedures.

Incompatibilities and Conditions to Avoid: Avoid contact with strong oxidizing agents.

Hazardous Combustion or Decomposition Products: Upon thermal decomposition, may emit toxic gases including carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen iodide.

TOXICOLOGICAL INFORMATION:

RTECS Number: SF7949600

Toxicity Data and References:

Scu; mus; LD₅₀: 16 mg/kg 1956. *British Journal of Pharmacology and Chemotherapy*. **11**, 334.

Refer to the Registry of Toxic Effects of Chemical Substances (RTECS) for a definition of abbreviations used in the above text and for additional information. This report contains only selected information from the RTECS.

ECOLOGICAL INFORMATION:

No information available.

DISPOSAL CONSIDERATIONS:

Country, federal, state, and local regulations are varied and change frequently. For this reason, we recommend that you contact your local Department of Health Services for information on the disposal of this product or arrange for disposal by a licensed disposal company.

TRANSPORTATION INFORMATION:

UN Number: N/A
Proper Shipping Name: N/A
IATA Class: N/A
IATA Packing Group: N/A

REGULATORY INFORMATION: T

Risk Phrases:

R36/37/38: Irritating to eyes, respiratory system and skin.

R46: May cause heritable genetic damage.

Safety Phrases:

S22: Do not breathe dust.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately.

OTHER INFORMATION:

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Material should only be handled by qualified, experienced professionals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. **CALBIOCHEM-NOVABIOCHEM** Corporation shall not be held liable for any damage resulting from the handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.