

MATERIAL SAFETY DATA SHEET

Permout Solution

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STATEMENT OF HAZARDOUS NATURE

Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

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IDENTIFICATION SECTION

Product Name	Permout Mounting Medium
Other Names	
Product Code	IA019, IA0195
U.N. Number	UN1993
Dangerous Goods Class	3
and Subsidiary Risk	None allocated
Hazchem Code	3[Y]E
Poison Schedule	None allocated
Use	A mounting medium for microscopy

Physical Description and Properties

Appearance	Yellow liquid
Boiling Point/Melting Point	No data
Vapour Pressure	No data
Specific Gravity	No data
Flash Point	7°C
Flammability Limits	Upper limit 6.7; lower limit 1.4
Solubility in water	Insoluble

Other Properties

Ingredients

Chemical Name	CAS Number	Proportion
Piccolyte (B-pinene polymer)	68240-09-5	44.85%
Toluenene Polymer (Toluene)	108-88-3	55.17%

HEALTH HAZARD INFORMATION

Health Effects:

Acute

Swallowed:	Aspiration hazard. May cause irritation of the digestive tract. May cause effects similar to those for inhalation exposure. Aspiration of the material into the lungs may cause chemical pneumonitis, which may be fatal. The approximate lethal dose in humans is 15-30mL.
Eye:	Causes eye irritation. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated. The vapour is discomforting to the eyes if exposure is prolonged.
Skin:	Contact with the liquid may cause irritation and may be absorbed to cause headache, dizziness, confusion, stupefaction, coma and death. Sensitisation reactions may occur in previously exposed individuals.
Inhaled:	Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, nausea, vomiting and coma.
Chronic:	Prolonged or repeated exposure to this product may cause dermatitis. May cause cardiac sensitization and severe heart abnormalities. May cause liver and kidney damage. Cardiac sensitisation may occur and may result in cardiac arrest due to ventricular fibrillation. Gastrointestinal effects may include abdominal pain, nausea, vomiting, and hematemesis.

First Aid:

Swallowed:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Possible aspiration hazard. Seek medical aid immediately.
Eye:	Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15 - 20 minutes). Get medical attention immediately.
Skin:	Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15 - 20 minutes). Get medical attention immediately.
Inhaled:	Remove from exposure to fresh air immediately. Apply artificial respiration if not breathing. Maintain airway, blood pressure and respiration. Keep warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.
First Aid Facilities:	Where there is any possibility that an employee's eyes and/or skin may be exposed to this substance, the employer should provide an eye wash fountain and quick drench shower within the immediate work area for emergency use.
Advice to Doctor:	Causes cardiac sensitization to endogenous catecholamines which may lead to cardiac arrhythmias. Do NOT use adrenergic agents such as epinephrine or pseudoepinephrine.

PRECAUTIONS FOR USE

Exposure Standards:	Piccolyte (B-Pinene Polymer) : None listed Toluene: NIOSH: 100ppm TWA; 375mg/m ³ TWA 500ppm IDLH
Engineering Controls:	Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits.
Personal Protection:	Follow the OSHA respirator regulations. Always use a self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. Employee must wear appropriate protective (impervious) clothing and equipment, appropriate protective gloves and splash-proof or dust-resistant safety goggles and a faceshield to prevent contact with this substance.
Flammability:	Dangerous fire hazard when exposed to heat, flame or shock. Vapours can travel to a source of ignition and flash back. Can release vapours that form explosives mixtures at temperatures above the flashpoint.

SAFE HANDLING INFORMATION

Storage and Transport:	Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. UN1993, DG Class 3, Packing group II, Flammable liquids N.O.S. (Contains toluene)
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Spills and Disposal:	Absorb with vermiculite or other suitable material. Place in a suitable container (plastic), for later disposal.
Fire/Explosion Hazard:	Firefighting media: dry chemical, carbon dioxide, or alcohol-resistant foam. For larger fires, use water spray, fog or regular foam. Move container from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Avoid breathing vapours, keep upwind.

OTHER INFORMATION

Incompatibilities (Materials to avoid)	Toluene is incompatible with bromine trifluoride, 1, 3-dichloro-5, 5-dimethyl-2, 4-imidazolididione, dinitrogen tetroxide, concentrated nitric acid, nitric acid + sulfuric acid, silver perchlorate, strong oxidizers.
Animal Toxicity Data:	LC50: inhalation-rat 49gm/m3 4 hours LC50 inhalation-mouse 400ppm/24 hours LD50 Oral-rat 636mg/kg LD50 Skin-rabbit 12124 mg/kg Reproductive effects have been reported in animals.

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.