

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 and Subsidiary Risk	3
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
Pinene Resin (Alpha Pinene)	80-56-8	57.4%
Toluenene Polymer (Toluene)	108-88-3	41.6%
2,6-Di-Tert-Butyl-P-Cresol	128-37-0	1.0%

Chronic: Prolonged or repeated exposure to toluene may cause mucous membrane irritation,

Advice to Doctor

Following acute or short term repeated exposures to toluene:

1. Toluene is absorbed across to alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 deg. C). The order of toluene, in expired breath, is of the order of 18ppm following sustained exposure to 100ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.
2. Metabolism by microsomal mono-oxygenation, results in the production of hippuric

OTHER INFORMATION

**Incompatibilities
(Materials to avoid)**

Toluene:
allyl chloride + dichloroethyl aluminium of ethylaluminium
sesquichloride: possible explosion
bromide trifluoride (solid): violent reaction
dinitrogen tetrafluoride: forms explosive mixture
mineral acids (strong): incompatible
nitric acid: vigorous reaction
nitric acid + sulfuric acid: violent decomposition possible
nitrogen tetroxide: explosive reaction
oxidisers (strong): fire and explosion hazard
plastics, rubber + coatings: may be attacked
silver perchlorate: forms shock-sensitive mixture
sulfur dichloride: violent reaction, greatly accelerated in the
presence of iron or ferric chloride
sulfuric acid: exothermic reaction
tetranitromethane: forms explosive mixture
uranium hexafluoride: violent reaction
Alpha-Pinene:
nitrosyl perchlorate: reaction is explosive
oxidisers: reaction may be violent

Animal Toxicity Data:

LC50 inhalation-rat 49g/m³ 4 hours
LC50 inhalation-mouse 400ppm/24 hours
LC50 inhalation-mammal 30g/m³
LD50 skin-rabbit 12124mg/kg
LD50 oral-rat 636mg/kg
LD50 oral-mammal 4g/kg
LD50 subcutaneous-mouse 2250mg/kg
LD50 intravenous-rat 1960mg/kg
LD50 intraperitoneal-guinea pig 500mg/kg
LD50 intraperitoneal-rat 1332mg/kg
LD50 intraperitoneal-mouse 59mg/kg
Reproductive effects have been reported in animals.
500mg/24 hours skin-rabbit moderate
2,6-Di-tert-butyl-p-cresol was tested for carcinogenicity in mice and rats by oral
administration in the diet. Mice showed an increased incidence pulmonary tumors in low