

# MATERIAL SAFETY DATA SHEET

## Drabkin's Reagent

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### STATEMENT OF HAZARDOUS NATURE

Hazardous according to criteria of Worksafe Australia

### COMPANY DETAILS

**Company:** ProSciTech  
**Address:** PO Box 111, Thuringowa Central Qld. 4817 Australia  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444  
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### IDENTIFICATION SECTION

<b>Product Name</b>	Drabkin's reagent
<b>Other Names</b>	
<b>Product Code</b>	ADRAB-1L
<b>U.N. Number</b>	UN1602
<b>Dangerous Goods Class and Subsidiary Risk</b>	6.1
<b>Hazchem Code</b>	None allocated
<b>Poison Schedule</b>	2X
<b>Use</b>	S6
	Solvent for haemoglobin

### Physical Description and Properties

<b>Appearance</b>	Clear liquid
<b>Boiling Point/Melting Point</b>	BP 100 <sup>o</sup> C
<b>Vapour Pressure</b>	23hP@20 <sup>o</sup> C
<b>Specific Gravity</b>	1L=1kg
<b>Flash Point</b>	Not applicable
<b>Flammability Limits</b>	Not determined
<b>Solubility in water</b>	Soluble

### Other Properties

#### Ingredients

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Proportion</b>
Disodium hydrogen orthophosphate	7558-79-4	Less than 1%
Potassium dihydrogen phosphate	7778-77-0	Less than 1%
Potassium cyanide (Below cutoff)	151-50-8	Less than 1%
Potassium ferricyanide	13746-66-2	Less than 1%
Sodium chloride	7647-14-5	Less than 1%
Octylphenoxy polyethoxyethanol (Below cutoff)	9002-93-1	Less than 1%
Water and other non-hazardous substances		Greater than 60% mixture

**Drabkin's Reagent****HEALTH HAZARD INFORMATION****Health Effects:***Acute*

<b>Swallowed:</b>	May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to vomiting and diarrhoea.
<b>Eye:</b>	May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.
<b>Skin:</b>	May cause irritation to the skin, with effects including: Redness and itchiness
<b>Inhaled:</b>	Mists from the product may cause irritation to the nose, throat and respiratory system with the effects including: Cough, discomfort, difficulty breathing and shortness of breath.

*Chronic:***First Aid:**

<b>Swallowed:</b>	DO NOT induce vomiting, give 3-4 glasses of water to drink. Seek medical aid.
<b>Eye:</b>	Wash continuously with water for 15 minutes, separating eyelids to ensure adequate flushing. Seek medical aid.
<b>Skin:</b>	Wash continuously with water for 15 minutes. Seek medical aid.
<b>Inhaled:</b>	Remove victim to fresh air. DO NOT use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Seek medical attention.
<b>First Aid Facilities:</b>	Eye bath, safety shower

**Advice to Doctor**

Treat symptomatically. In case of poisoning, contact Poisons Information Centre In Australia call: 131126 In New Zealand call: 034747000

**PRECAUTIONS FOR USE**

<b>Exposure Standards:</b>	Potassium Cyanide - 5 mg/m <sup>3</sup> Sodium chloride - 10 mg/m <sup>3</sup>
<b>Engineering Controls:</b>	Use only in a well ventilated area at all times as this product is a toxic material. Single significant exposure may cause death. Prevent accumulation of gas(es) in hollows or sumps. Eliminate any sources of ignition. DO NOT enter room unless monitored by another person (ie buddy-buddy system).
<b>Personal Protection:</b>	Always wear protective clothing that includes: Nitrile or neoprene apron and gloves, chemical goggles or faceshield. Avoid breathing vapours. When vapours approach the exposure standards then the use of a half-face organic vapour respirator with dust/mist filter is recommended. If vapours exceed exposure standards then the use of a positive pressure demand self-contained respirator is required.
<b>Flammability:</b>	Not flammable under conditions of use.

**SAFE HANDLING INFORMATION**

<b>Storage and Transport:</b>	Store in a cool, dry place out of direct sunlight. Keep away from any sources of heat or ignition, strong alkalis, acids, combustables and oxidizing agents. UN1602, Hazard class: 6.1, Packing group: II, Proper shipping name: Dye, Liquid, Toxic, N.O.S. (Ferricyanide solution) Initial response guide for toxic substances : Guide no. 34
<b>Spills and Disposal:</b>	In case of spill keep unnecessary people away. Ventilate area and soak up material with sand, dirt or vermiculite. DO NOT use sawdust. Place in a suitable labeled container for proper disposal.
<b>Fire/Explosion Hazard:</b>	Fire-fighting personnel to use self contained breathing apparatus. Extinguishing Media: Use water spray, dry chemical, carbon dioxide or foam. Fire or heat will produce irritating, toxic and/or corrosive gases.

**Drabkin's Reagent****OTHER INFORMATION**

<b>Incompatibilities (Materials to avoid)</b>	Strong alkalis, acids, nitrates and oxidizing agents.
<b>Animal Toxicity Data:</b>	No data

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