

# MATERIAL SAFETY DATA SHEET

## Auramine Concentrate

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Date of Issue: 18 Sept. 06

### 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  
**Fax Number:** (07) 4773 2244

### IDENTIFICATION SECTION

<b>Product Name</b>	Auramine Concentrate
<b>Other Names</b>	Auramine dye solution
<b>Product Code</b>	AAURA-50C
<b>U.N. Number</b>	2821
<b>Dangerous Goods Class and Subsidiary Risk</b>	6.1
<b>Hazchem Code</b>	None allocated
<b>Poison Schedule</b>	2X
<b>Use</b>	None allocated
	Used in Hospital and Pathology laboratories as a diagnostic stain

### Physical Description and Properties

<b>Appearance</b>	Dark brown syrup
<b>Boiling Point/Melting Point</b>	B.P. 180°C
<b>Vapour Pressure</b>	40.7 hPa @ 25°C
<b>Specific Gravity</b>	1.8
<b>Flash Point</b>	79°C
<b>Flammability Limits</b>	1.7-86% by vol
<b>Solubility in water</b>	150g/L

### Other Properties

#### Ingredients

Chemical Name	CAS Number	Proportion
AURAMINE O	2465-27-2	6%
PHENOL	108-95-2	60%
GLYCEROL	56-81-5	34%

**Auramine Concentrate****HEALTH HAZARD INFORMATION****Health Effects:***Acute***Swallowed:**

Toxic if swallowed.

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

**Eye:**

Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.

**Skin:**

Toxic by skin contact.

Will cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.

**Inhaled:**

Toxic if inhaled.

Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, incoordination, chest pains, coughing, respiratory paralysis and or failure.

*Chronic:*

Prolonged or repeated exposure may lead to cancer. Prolonged or repeated exposure may lead to irreversible damage to health. Prolonged or repeated skin contact will lead to necrosis (death) of the skin. Additional information for Chronic: AURAMINE O has been classified as a CATEGORY 2 CARCINOGEN (WORKSAFE). Probable human carcinogens are those substances for which there is sufficient evidence to provide a strong presumption that human exposure might result in the development of cancer. This evidence is generally based upon appropriate long term animal studies, limited epidemiological evidence or other relevant information.

**First Aid:****Swallowed:**

If swallowed, DO NOT induce vomiting. Seek urgent medical assistance.

**Eye:**

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

**Skin:**

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available. Urgently transport to hospital or doctor.

**Inhaled:**

Remove victim to fresh air. Apply resuscitation if victim is not breathing - DO NOT USE DIRECT MOUTH - TO - MOUTH METHOD if victim ingested or inhaled substance; use alternative respiratory method or proper respiratory device - Administer oxygen if breathing is difficult.

**First Aid Facilities:**

Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor**

Treat symptomatically.

**PRECAUTIONS FOR USE****Exposure Standards:**

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PHENOL  
(Worksafe Australia)  
[TWA]1 ppm    4 mg/m<sup>3</sup>

Notices: A

(ACGIH)  
[TWA]5 ppm    19 mg/m<sup>3</sup>

Carcinogen Category: A4

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GLYCEROL

**Auramine Concentrate**

(Worksafe Australia)  
[TWA]10 mg/m<sup>3</sup>

Notices: H

(ACGIH)  
[TWA]10 mg/m<sup>3</sup>

**Engineering Controls:**

Toxic material. Single significant exposure may cause death. Maintain adequate ventilation at all times. 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). Sampling of the atmosphere if possible should be conducted automatically instead of human operator and any leaks discovered should then be directed digitally to a command centre where the event can be acted upon, with all appropriate procedures being implemented and including any protective equipment as outlined in this MSDS.

**Personal Protection:**

CLOTHING: PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit as recommended by the manufacturer. GLOVES: PVC, Nitrile, Neoprene, Natural rubber or any other type of glove as recommended by the manufacturer. EYES: Chemical goggles or faceshield to protect eyes. RESPIRATORY PROTECTION: Avoid breathing of gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

**Flammability:**

Material does not burn. Fire or heat will produce irritating, toxic and/or corrosive gases. Runoff may pollute waterways, drains or sewers.

<b>SAFE HANDLING INFORMATION</b>
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**Storage and Transport:**

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

**Spills and Disposal:**

EMERGENCY ACTION:  
Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Isolate for 100 m in all directions if tank, rail car or tanker truck is involved in fire. SPILL OR LEAK PROCEDURE: Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces. SMALL SPILLS: Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal. LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

**Fire/Explosion Hazard:**

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water spray. SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing

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apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

### OTHER INFORMATION

**Incompatibilities  
(Materials to avoid)  
Animal Toxicity Data:**

Strong alkalis, acids, nitrates and oxidizing agents.

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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.