

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product (material) Name:** Auramine O. Catalogue # C067, C0671, C0675.  
**Other Names:**  
**Recommended Use:** Biological Stain.

**Supplier Name:** ProSciTech  
**Postal 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  
**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.  
**Risk Phrases:**  
**Safety Phrases:**

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE:**  
**Chemical Identity:** Auramine O  
**Common Name(s):**  
**CAS Number(s):** 2465-27-2

### MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Auramine O	2465-27-2	100

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** DO NOT induce vomiting. If person is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water. Discard contaminated clothing in a manner which limits further exposure. Get medical aid if irritation develops or persists.

**Inhaled:** If not breathing give artificial respiration. If breathing is difficult give oxygen. Do not use mouth-to-mouth resuscitation. Seek medical aid. Safety shower, eyebath.

**First Aid Facilities:**  
**Medical Attention & Special Treatment:**

ADDITIONAL INFORMATION:

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use water, dry chemical, chemical foam or alcohol-resistant foam.  
**Hazards from Combustion Products:** Hydrogen chloride, carbon monoxide, oxides of nitrogen, carbon dioxide.  
**Precautions for Fire Fighters:** Wear self-contained breathing apparatus and full protective gear.  
**Hazchem Code:**

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****Emergency Procedures:**

**Containment and clean up:** Use appropriate protective equipment, refer to Section 8. Vacuum or sweep up material and place into a suitable container for disposal. Clean up any dust and ventilate the area.

**SECTION 7 - HANDLING & STORAGE**

**Precautions for Safe Handling:** Wash thoroughly after handling. Use in adequate ventilation. Minimise dust generation and accumulation. Avoid contact with skin and eyes, avoid ingestion and inhalation. Wear appropriate protective equipment. Keep container tightly closed when not in use.

**Conditions for Safe Storage:** Store in a tightly sealed container, in a cool, dry, well-ventilated area away from incompatible materials.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

**Engineering Controls:** Use in a well-ventilated area, preferably under a fume hood.

**Personal Protective Equipment:** Wear safety glasses or chemical goggles, gloves and appropriate protective clothing to minimise contact. If necessary wear a self-contained breathing apparatus, NIOSH/MSHA approved.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

**Appearance:** Yellow-green powder.

**Odour:** Not available.

**pH:** Not available.

**Vapour pressure:** Not available.

**Vapour density:** Not available.

**Boiling point/range:** Not available.

**Freezing/melting point:** 267.23°C.

**Solubility:** Soluble in water.

**Specific gravity or density:** >1.

**Flash Point:** Not available.

**Flammable (explosive) limits:** Not available.

**Ignition temperature:** Not available.

**Additional Information:** Decomposition Temperature: 250°C.  
Molecular Weight: 303.83.

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions of use.

**Conditions to avoid:** Incompatible materials, dust generation, excess heat.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, oxides of nitrogen, carbon dioxide.

**Hazardous Reactions:**

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Acute and chronic health effects:** ORAL LD50 Mouse: 480 mg/kg.

**Possible routes of exposure:** Inhalation, ingestion, skin/eye contact.

**Range of effects following exposure:**  
EYE: May cause skin irritation and irreversible eye injury.  
SKIN: May cause severe skin irritation, may be absorbed through skin in harmful amounts.  
INGESTION: May cause irritation of the digestive tract.  
INHALATION: Causes respiratory tract irritation.

**Dose likely to cause injury:**

**Delayed effects:** May cause cancer according to animal studies.

**Relevant negative data:** Group 2B carcinogen, no data available on humans, however sufficient evidence of carcinogenicity in animals.

**SECTION 12 – ECOLOGICAL INFORMATION****Ecotoxicity:****Persistence and degradability:**

Terrestrial: May undergo covalent chemical bonding with humic materials which can result in its chemical alteration to a latent form and tight adsorption. When covalently bound in its latent form, leaching in soil systems is not expected to occur.

Aquatic: May undergo covalent bonding with humic materials in the water column and sediment.

Atmospheric: Particulate phase auramine hydrochloride will probably be removed from air via dry deposition, or degraded in air by photolysis based on its UV spectrum. Will slowly biodegrade but not bioconcentrate.

**Mobility:****Additional Information:****SECTION 13 - DISPOSAL CONSIDERATIONS****Disposal Methods:**

Dispose according to Federal, State and Local Regulations.

**Special Precautions:****SECTION 14 - TRANSPORT INFORMATION****UN Number:****UN Proper Shipping Name:****Class and Subsidiary risk:****Packing Group:****Special Precautions for User:****Hazchem Code:****SECTION 15 - REGULATORY INFORMATION****Poison Schedule Number:**

None allocated

**SECTION 16 - OTHER INFORMATION****Date of preparation of MSDS:**

14 April 2008

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