

27120 SW 95th Avenue
P.O. Box 570
Wilsonville, OR 97070-0570
USA
(503) 570-2500

MATERIAL SAFETY DATA SHEET

EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

SECTION 1: MATERIAL INFORMATION

Common Name: AURAMINE-O FLUORESCENT COUNTERSTAIN
Synonyms:
Catalog Number: R5804, R5810
CAS #: N/AV
WARNING: Oxidant

SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Potassium Permanganate	7722-64-7	Inorganic Salt	KMnO ₄	0.5%

SECTION 3: PHYSICAL DATA

Appearance: Purple liquid	pH: N/AV	Vapor Density: N/AV
Boiling Point: N/AV	Solubility in Water: Appreciable	Flash Point: N/AV
Melting Point: N/AV	Vapor Pressure: N/AV	Evaporation Rate: N/AV
Odor: Slight	Specific Gravity: N/AV	

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: No

Flammable Limits: Upper: N/AP Lower: N/AP

Extinguish Media: Water Spray

Special Hazards: Wear self-contained, positive pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Contact with other materials may cause fire. Emits toxic fumes under fire conditions.

SECTION 5: REACTIVITY DATA

Stable: **Unstable:**

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

Water -

Acids - Acetic acid, nitric acid, lactic acid, oxalic acid

Bases -

Corrosives -

Oxidizers -

Other: Strong reducing agents, powdered metals, peroxides, aluminum, zinc, lead, copper, and their alloys.

Hazardous Decomposition Products:

Nature of decomposition products not known.

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Potassium Permanganate	0.5%	TLV-TWA 5 mg(Mn)/M3	ORL-HMN LDLO: 143 mg/kg ORL-RAT LD50: 1090 mg/kg SCU-MUS LD50: 500 mg/kg

Effects of Overexposure (Acute and Chronic): Mildly irritating solution.

Carcinogenicity: These products do not contain any carcinogens at 0.1% or greater.

First Aid Procedure:

Skin Contact: Flush with copious amounts of water for at least 15 minutes
Eye Contact: Flush with copious amounts of water for at least 15 minutes
Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.
Ingestion: Wash mouth out with water. Do not induce vomiting.

In all cases of overexposure seek medical attention.

Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Cover material with dry-lime, sand, or soda ash. Place in covered container using non-sparking tools and transport outdoors. Wash spill site with water.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation.

Avoid prolonged or repeated inhalation of vapor.

Protect eyes, skin, and clothing with safety goggles and gloves.

Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Use in a chemical fume hood. Keep containers tightly closed, away from heat, sparks, or open flame.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 12/91
Current Revision: 01/2011
Revised By: Charissa H. Bolind

Authorized Signature: _____


DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information in this document is believed to be correct as of the date issued or revised. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.