



# UNISOURCE CHEMICALS PRIVATE LIMITED

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## AURAMINE O CERTIFIED

### Material Safety Data Sheet

#### **1. PRODUCT IDENTIFICATION:**

**Synonyms:** Basic Yellow 2, 4,4'-(Imidocarbonyl)bis(N,N-dimethylaniline) monohydrochloride; C.I. 41000; auramine hydrochloride

**CAS No.:** 2465-27-2

**Molecular Weight:** 303.83

**Chemical Formula:** C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>.HCl

#### **2. COMPOSITION, INFORMATION ON INGREDIENTS:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Auramine-O	2465-27-2	100%	Yes

#### **3. HAZARDS IDENTIFICATION:**

##### **Emergency Overview**

**Appearance:** Yellow-green powder. **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cancer based on animal studies. Potential cancer hazard.

**Target Organs:** No data found.

##### **Potential Health Effects**

**Eyes:** May cause eye irritation. May cause irreversible eye injury.

**Skin:** May cause severe skin irritation. May be absorbed through the skin in harmful amounts.

**Ingestion:** May cause irritation of the digestive tract..

**Inhalation:** May cause respiratory tract irritation.

**Chronic:** May cause cancer according to animal studies.

#### **4. FIRST AID MEASURES:**

Bring this data sheet to physician.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. Rinse mouth out if conscious. **DO NOT** induce vomiting. **NEVER** give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **DO NOT** use mouth-to-mouth resuscitation.

**Notes to Physician:** Treat symptomatically and supportively.

#### **5. FIRE FIGHTING MEASURES:**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame.

**Extinguishing Media:** In case of fire use water spray to cool fire expose containers. Use water dry chemical, chemical foam, or alcohol-resistant foam, or appropriate foam. Use agent most appropriate to extinguish fire.

## **6. ACCIDENTAL RELEASE MEASURES:**

**General Information:** Evacuate area and then, Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section, wearing rubber gloves. Avoid generating dusty conditions. Provide ventilation. Do not let product into drains. Hold for proper disposal.

## **7. HANDLING AND STORAGE:**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION:**

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low. Wear a chemical fume hood.

### **Exposure Limits**

<b><u>Chemical Name</u></b>	<b><u>ACGIH</u></b>	<b><u>NIOSH</u></b>	<b><u>OSHA - Final PEL's</u></b>
Auramine-O	None listed	None listed	None listed

**OSHA Vacated PELs:** Auramine-O: No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure. Wash before reuse.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Powder

**Appearance:** Yellow-green

**Odor:** Odorless

**Freezing/Melting Point:** 513 deg F

**pH:** Not available.

**Vapor Pressure (mm Hg):** Negligible

**Vapor Density (Air = 1):** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Decomposition Temperature:** 482 deg F  
**Solubility:** Soluble in water.  
**Specific Gravity/Density:** >1  
**Flash Point:** Not applicable.  
**Autoignition Temperature:** Not applicable.  
**Explosion Limits, Lower:** Not available.  
**Upper:** Not available.  
**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0.

#### **10. STABILITY AND REACTIVITY:**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.  
**Conditions to Avoid:** Incompatible materials, dust generation, excess heat.  
**Incompatibilities with Other Materials:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, oxides of nitrogen, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported.

#### **11. TOXICOLOGICAL INFORMATION:**

**RTECS:** CAS# 2465-27-2: BY3675000  
**LD50/LC50:** CAS# 2465-27-2: Oral, mouse: LD50 = 480 mg/kg.  
**Carcinogenicity:** CAS# 2465-27-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
**Epidemiology:** IARC Group 2B: May cause irritation on human carcinogenicity, sufficient evidence of carcinogenicity in animals. Skin mouse LD50 300 mg/kg  
**Teratogenicity:** No information found.  
**Reproductive Effects:** No information found.  
**Neurotoxicity:** No information available.  
**Mutagenicity:** No information available.  
**Other Studies:** See actual entry in RTECS for complete information.

#### **12. ECOLOGICAL INFORMATION:**

**Environmental Fate:** No information available.  
**Environmental Toxicity:** 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 this latent form, leaching in soil systems is not expected to occur. Aquatic: May undergo covalent bonding with humic materials in the water column and in 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.  
**OTHER:** For more information, see “**HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA.**”

#### **13. DISPOSAL CONSIDERATIONS:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.  
**RCRA P-Series:** None listed.  
**RCRA U-Series:** None listed.

#### **14. TRANSPORT INFORMATION:**

DOT - Proper Shipping Name: Toxic solids, organic, n.o.s.

UN#: 2811

Class: 6.1

Packing Group: Packing Group III

Hazard Label: Toxic substances.

PIH: Not PIH

IATA - Proper Shipping Name: Toxic solid, organic, n.o.s.

IATA UN Number: 2811

Hazard Class: 6.1

Packing Group: III

#### **15. REGULATORY INFORMATION:**

##### **US FEDERAL**

##### **TSCA**

CAS# 2465-27-2 is listed on the TSCA inventory.

##### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

##### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

##### **Section 12b**

None of the chemicals are listed under TSCA Section 12b.

##### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

##### **SARA**

##### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

##### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

##### **SARA Codes**

CAS# 2465-27-2: acute, chronic

##### **Section 313**

No chemicals are reportable under Section 313.

##### **Clean Air Act**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

##### **Clean Water Act**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

##### **OSHA**

None of the chemicals in this product are considered highly hazardous by OSHA.

##### **STATE**

CAS# 2465-27-2 can be found on the following state right to know lists: New Jersey, Pennsylvania.

California No Significant Risk Level: None of the chemicals in this product are listed.

##### **EUROPEAN/INTERNATIONAL REGULATIONS**

##### **European Labeling in Accordance with EC Directives**

**Hazardous Symbols:** T

##### **Risk Phrases:**

R 22 Harmful if swallowed.

R 24 Toxic in contact with skin.

R 40 May cause cancer.

##### **Safety Phrases:**

S 36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

S 28A After contact with skin, wash immediately with plenty of water.

**WGK (Water Danger/Protection)**

CAS# 2465-27-2: 2

**Canada - DSL/NDSL**

CAS# 2465-27-2 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

CAS# 2465-27-2 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits**

**16. DISCLAIMER INFORMATION:**

**DISCLAIMER:**

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