# **Material Safety Data Sheet**

Version 4.0 Revision Date 02/23/2010 Print Date 07/28/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Auramine O

Product Number : 861030 Brand : Aldrich

Company : Sigma-Aldrich

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USA

Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## **OSHA Hazards**

Toxic by ingestion, Toxic by skin absorption, Carcinogen

## Other hazards which do not result in classification

Rapidly absorbed through skin.

## GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H351 Suspected of causing cancer.

## Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

P322 Specific measures (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

#### **HMIS Classification**

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical hazards: 0

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**NFPA Rating** 

Health hazard: 2 Fire: 0 Reactivity Hazard: 0

#### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** Toxic if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** Toxic if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Basic Yellow 2

Pvoctaninum aureum

4,4'-(Imidocarbonyl)bis(*N*,*N*-dimethylaniline)monohydrochloride

Formula :  $C_{17}H_{21}N_3 \cdot HCI$ Molecular Weight : 303.83 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride			
2465-27-2	219-567-2	612-097-00-2	-

## 4. FIRST AID MEASURES

## **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

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## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves.

## Eye protection

Face shield and safety glasses

## Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Appearance**

Form powder
Colour dark yellow

## Safety data

pH 6.5 at 10 g/l at 20 °C (68 °F)

Melting point > 250 °C (> 482 °F) - dec.

Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Water solubility ca.10 g/l at 20 °C (68 °F) - soluble

## 10. STABILITY AND REACTIVITY

## **Chemical stability**

Stable under recommended storage conditions.

#### Conditions to avoid

no data available

## Materials to avoid

Strong oxidizing agents

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## **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

LD50 Oral - mouse - 480 mg/kg

LD50 Dermal - mouse - 300 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Limited evidence of a carcinogenic effect.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or

anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS)

no data available

Specific target organ toxicity - repeated exposure (GHS)

no data available

**Aspiration hazard** 

no data available

Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** Toxic if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: BY3675000

## 12. ECOLOGICAL INFORMATION

## **Toxicity**

Toxicity to fish LC50 - Oryzias latipes - 3.2 mg/l - 48 h

## Persistence and degradability

no data available

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## Bioaccumulative potential

no data available

## Mobility in soil

no data available

## PBT and vPvB assessment

no data available

#### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

#### **Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride)

Marine pollutant: No

**IATA** 

UN-Number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride)

## 15. REGULATORY INFORMATION

### **OSHA Hazards**

Toxic by ingestion, Toxic by skin absorption, Carcinogen

#### **DSL Status**

All components of this product are on the Canadian DSL list.

## **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

## **Pennsylvania Right To Know Components**

4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride CAS-No. Revision Date 2465-27-2 1989-08-11

**New Jersey Right To Know Components** 

4,4'-Carbonimidoylbis(n,N-dimethylaniline) monohydrochloride CAS-No. Revision Date 2465-27-2 1989-08-11

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## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

## **Further information**

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