

Auramine O

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Auramine O

Product Code 130

Manufacturer EMD Chemicals Inc.

P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was
EM Industries, Inc. or EM Science, Division of
EM Industries, Inc.

Effective Date 3/3/2003

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC
(USA)
613-996-6666 CANUTEC
(Canada)
24 Hours/Day: 7 Days/Week

Synonym BASIC YELLOW 2; C.I. #41000

Material Uses Analytical reagent.

Chemical Family Hydrocarbon.

Section 2. Composition and Information on Ingredients

Component

CAS # % by Weight

AURAMINE O

2465-27-2 100

Section 3. Hazards Identification

Physical State and Appearance Solid. (Powdered solid.)

Emergency Overview

DANGER!

HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

TOXIC TO AQUATIC ORGANISMS.

MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes May be hazardous in case of eye contact (irritant).

Skin Hazardous in case of skin contact (permeator). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Hazardous in case of inhalation. May be hazardous in case of inhalation (lung irritant).

Ingestion Hazardous in case of ingestion.

Potential Chronic Health Effects

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Carcinogenic Classified 3 (Possible for human.) by European Union.

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Aggravated by
Overexposure:

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature.

Auto-ignition Temperature Not available.

Flash Points Not available.

Flammable Limits Not available.

Products of Combustion These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), halogenated compounds.

Fire Hazards in Presence of Various Substances Not available.

Explosion Hazards in Presence of Various Substances **Risks of explosion of the product in presence of static discharge:** No.
Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards Not available.

Special Remarks on Explosion Hazards Not available.

Section 6. Accidental Release Measures

Small Spill and Use appropriate tools to put the spilled solid in a convenient waste

Auramine O

Leak	disposal container.
Large Spill and Leak	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed.
Storage	Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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Personal Protection

Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Not applicable.

Protective Clothing (Pictograms)

Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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Product Name	Exposure Limits
AURAMINE O	BAUA (Germany, 1997).
	Spitzenbegrenzung: 0.32 mg/m ³
	MAK: 0.08 mg/m ³

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	Yellow.
Physical State and Appearance	Solid. (Powdered solid.)
Molecular Weight	303.87 g/mole
Molecular Formula	C ₁₇ H ₂₁ N ₃ · HCl
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.

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Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Partially soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂) , nitrogen oxides (NO, NO ₂ ...) , halogenated compounds
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Auramine O	BY3675000
Toxicity	Acute oral toxicity (LD50): 150 mg/kg [Cat]. Acute dermal toxicity (LD50): 300 mg/kg [Mouse].	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 3 (Possible for human.) by European Union.	
Acute Effects on Humans	May be hazardous in case of eye contact (irritant). Hazardous in case of skin contact (permeator). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation. May be hazardous in case of inhalation (lung irritant). Hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Not available.	
Carcinogenic Effects	Classified 3 (Possible for human.) by European Union.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).	

Section 12. Ecological Information

Ecotoxicity	Not available.
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BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The products of degradation are as toxic as the product itself.

Section 13. Disposal Considerations

EPA Waste Number	U014
Treatment	Specified Technology – Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations..

Section 14. Transport Information

DOT Classification	Not available.
TDG Classification	Not available.
IMO/IMDG Classification	Not available.
ICAO/IATA Classification	Not available.

Section 15. Regulatory Information

U.S. Federal Regulations	TSCA 8(b) inventory: AURAMINE O SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: AURAMINE O SARA 311/312 MSDS distribution – chemical inventory – hazard identification: AURAMINE O: Delayed (Chronic) Health Hazard SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
WHMIS (Canada)	Class D–1B: Material causing immediate and serious toxic effects (TOXIC). CEPA DSL: AURAMINE O This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.
International Regulations	
EINECS	AURAMINE O 219–567–2

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DSCL (EEC) R22– Harmful if swallowed.
R36– Irritating to eyes.
R40– Possible risks of irreversible effects.
R51/53– Toxic to aquatic organisms, may cause long–term adverse effects in the aquatic environment.

International Lists Australia (NICNAS): AURAMINE O

Japan (MITI): AURAMINE O

Korea (TCCL): AURAMINE O

Philippines (RA6969): AURAMINE O

China: No products were found.

State Regulations Pennsylvania RTK: AURAMINE O: (special hazard, environmental hazard, generic environmental hazard)

New Jersey: AURAMINE O

California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection Association (U.S.A.)	1	Fire Hazard
	20	Health
		Reactivity
		Specific Hazard

Changed Since Last Revision +

Notice to Reader

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