

MATERIAL SAFETY DATA SHEET
EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....: Preparation Date.: 9/16/97
EM SCIENCE
A Division of EM Industries Information Phone Number.: 856-423-
6300
P.O. Box 70 Hours: Mon. to Fri. 8:30-5
480 Democrat Road Chemtrec Emergency Number: 800-424-
9300
Gibbstown, N.J. 08027 Hours: 24 hrs a day

Catalog Number(s):
200 66851P

Product Name:
Eosin Y
Synonyms:
Bromofluoresceic Acid
Chemical Family:
Fluorescent Dye
Formula:
C₂₀H₈Br₄Na₂O₅
Molecular Weight.: 693.90

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
Eosin Y (Yellowish)	17372-87-1	100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

MAY BE HARMFUL IF INHALED OR SWALLOWED.
MAY BE IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.

Appearance:

Red crystals with bluishish tinge or brownish-red powder

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

May be harmful if inhaled or swallowed.
May be irritating on contact with skin, eyes or mucous membranes.
Allergic reaction or irritation of respiratory passages on
inhalation may occur especially if the dye is heated.

Medical Cond. Aggravated by Exposure:

None indicated

Routes of Entry:

Inhalation, ingestion or skin contact

Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (F) : None

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media . . :

Use water, dry chemical, CO₂, or "alcohol" foam.

Fire Fighting Procedures:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards:

Thermal decomposition produces toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.

Wear suitable protective equipment listed under Exposure / Personal Protection.

Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

Contain the release and eliminate its source, if this can be done without risk.

Take up and containerize for proper disposal as described under Disposal.

Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

7. HANDLING AND STORAGE

Handling & Storage:

Keep container closed.

Store at controlled room temperature.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves should be worn to prevent skin contact (Neoprene or equivalent)

Safety glasses with side shields should be worn at all times.

Work/Hygenic Practices:

Wash thoroughly after handling.

Do not take internally.

Eye wash and safety equipment should be readily available.

EXPOSURE GUIDELINES

OSHA - PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Eosin Y (Yellowish)							

ACGIH - TLV

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Eosin Y (Yellowish)							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) : N/A
Melting Point (C) : N/A
Specific Gravity (H2O = 1) : N/A
Vapor Pressure (mm Hg) . . . : N/A
Percent Volatile by vol (%) : N/A
Vapor Density (Air = 1) . . : N/A
Evaporation Rate (BuAc = 1) : N/A
Solubility in Water (%) . . : Soluble
Appearance :
Red crystals with bluishish tinge
or brownish-red powder

10. STABILITY AND REACTIVITY

Stability: Yes

Hazardous Polymerization:
Does not occur

Hazardous Decomposition:
Toxic fumes of Bromine

Conditions to Avoid:
Extreme heat

Materials To Avoid:
 () Water
 () Acids
 () Bases
 () Corrosives
 () Oxidizers
 (X) Other: none indicated

11. TOXICOLOGICAL INFORMATION

Toxicity Data
orl-mus LD50: 2344 mg/kg

Toxicological Findings:
Tests on laboratory animals indicate material may produce adverse mutagenic effects and cause tumors.
Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name:

non-regulated

DOT ID Number :

none

14. REGULATORY INFORMATION

TSCA Statement:

The CAS number of this product is listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
Eosin Y (Yellowish)			

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Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
Eosin Y (Yellowish)			

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health : 2

Flammability : 0

Reactivity : 0

Special Hazards :

Revision History: 9/16/97

- | = Revised Section
- N/A = Not Available
- N/E = None Established

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