

Safety Data Sheet

Eosin Y, Certified C.I. 45380

Section 1 - Chemical Product and Company Identification

SDS Name: Eosin Y, Certified C.I. 45380

Catalog Numbers: R-45

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H303-Acute toxicity, oral: 5

H313-Acute toxicity, dermal: 5

H317-Sensitisation, skin: 1

H319-Serious eye damage/eye irritation: 2A

H402-Hazardous to the aquatic environment, acute hazard: 3

Consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Warning

Hazard Statements:

H303-May be harmful if swallowed

H313-May be harmful in contact with skin

H317-May cause an allergic skin reaction

H319-Causes serious eye irritation

H402-Harmful to aquatic life

Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

P272-Contaminated work clothing should not be allowed out of the workplace.

P273-Avoid release to the environment.

P280-Wear protective gloves/eye protection/face protection.

P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.

P302+P312-If on skin: Call a Poison Center/doctor if you feel unwell.

P302+P352-If on skin: Wash with plenty of soap and water.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P337+P313-If eye irritation persists: Get medical advice/attention.

P362+P364-Take off contaminated clothing and wash it before reuse.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
17372-87-1	Eosin Y	≥88 w/w

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 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 gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, hydrogen bromide gas, bromine, irritating and toxic fumes and gases.

Flash Point: 191.6°C (376.9°F) Closed Cup

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective gear. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Carefully sweep up and containerize for proper disposal. Minimize dust generation and accumulation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Protect from moisture. Avoid dust formation. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Eosin Y CAS#17372-87-1	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Powder Solid

Appearance: Pink-orange

Odor: Odorless

Vapor Pressure: Not available

Odor Threshold: Not available

Vapor Density: Not available

pH: 6.55 at 29°C (84°F)

Relative Density: Not available

Melting point/freezing point: 255-270°C (491-518°F) at 977.9 hPa

Solubility: 131.43 g/L at 25°C (77°F) - Completely soluble

Boiling Point: Not available

Flash Point: 191.6°C (376.9°F) Closed Cup

Evaporation Rate: Not available

Flammability (solid, gas): Not available

Partition coefficient: n-octanol/water: Not available

Autoignition Temperature: Not available

Decomposition Temperature: >300°C (572°F)

Viscosity: Not available

Specific Gravity/Density: 0.78 g/cm³ at 27.05°C (80.69°F)

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Exposure to moisture. Avoid dust formation.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, strong reducing agents, and alkaline.

Hazardous Decomposition Products: Carbon oxides, hydrogen bromide gas, bromine, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#17372-87-1 Eosin Y: RTECS# LM5800000

LD50 Oral: 2344 mg/kg (mouse)

LD50 Dermal: >2000 mg/kg (rat)

LC50 Inhalation: Not available

Carcinogenicity: Eosin Y CAS#17372-87-1 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: May cause an allergic skin reaction. Symptoms of a reaction may include rash, itching, swelling, trouble breathing, tingling of the hands/feet, dizziness, lightheadedness, chest pain, muscle pain, flushing. Eye contact may cause irritation, redness, pain, watering, blurred vision.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Harmful to aquatic life.

CAS#17372-87-1 Eosin Y:

LC50, freshwater fish: 1200 mg/L 48h (oryzias latipes)(orange-red killifish)

EC50, water flea: >100 mg/L 48h static (daphnia magna)

ErC50, algae: 51.3 mg/L 72h static (desmodesmus subspicatus)(green algae)

Persistence and degradability: Not available.

Bio-accumulative potential: Bioaccumulation is not expected.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 11-1-12

Revision #1: 1-13-15 YM

Revision #2: 7-21-15 RC

Revision #3: 11-10-23

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