



Material Safety Data Sheet

Eosin - Y Vintage

Section 1. Product and Preparation Information

Product Identifier

Eosin - Y Vintage

Product Use

Routine hematoxylin and eosin staining

Date Prepared

Dec 2009

Synonyms / Chemical Name

Denatured ethyl alcohol, disodium eosine

Manufacturer/Preparer

Stat Lab
407 Interchange St.
McKinney, Texas 75071469.525.4825
Fax: 972.436.1369
Tech Support: 1.800.442.3573

Emergency Contact

Chemtec USA and Canada 800.424.9300
Chemtec International 703.527.3887
USA Non-Transport Calls 800.225.8867

Section 2. Protective Measures



NFPA



US DOT



Personal Protection

Eyes: Safety glasses

Hands: Latex or nitrile gloves

Body: Laboratory coat

Respiratory Wear: NIOSH/MSHA approved respirator when ventilation is inadequate



Emergency Overview

HIGHLY FLAMMABLE LIQUID AND VAPOR, VAPOR MAY CAUSE FLASH FIRE. CANNOT BE MADE NON-POISONOUS. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE BLOOD, NERVOUS SYSTEM, REPRODUCTIVE SYSTEM, LIVER, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN AND EYE DAMAGE. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. FOR LABORATORY USE ONLY.

Engineering Controls: General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are proximal to the workstation or tissue processor.

Handling and Storage: Dissipate static electricity during transfer by grounding and bonding containers and equipment. If air concentrations may exceed lower explosive limit, use explosion-proof equipment. Keep containers closed and out of reach of children. Do not use near open flames or sparks. Store at room temperature. Store in flammable liquid safety cabinet when possible.

Small Spill and Leak: Dilute with water and mop, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak: Keep away from heat and ignition sources. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Avoid skin and eye contact. Prevent entry into sewers, basements or confined areas: dike if needed. Eliminate all ignition sources. Be careful that airborne concentrations do not exceed published exposure and lower explosive limits.

Waste Disposal

Unused Product – Dispose as a regulated hazardous waste.

Spent product or spill clean up - Follow all provincial and federal rules.

Section 3. Hazardous Ingredients

Hazardous Ingredient	% wt.	CAS Number	LD50	LC50
Eosin Y Dye	N/A	17372-87-1	2,344 mg/kg oral mouse	NA
Glacial Acetic acid	N/A	64-19-7	1,060 mg/kg acute dermal rat	5,620 ppm/1hr inhalation mouse
Ethanol	75.1	64-17-5	7,060 mg/kg oral rat 3,450 mg/kg oral mouse	20,000 ppm/10 hr. inhalation rat 39 gm/m ³ /4hr inhalation mouse
Isopropanol	4.1	67-63-0	5,045 mg/kg oral rat 3,600 mg/kg oral mouse	72,600 mg/m ³ inhalation rat 53,000 mg/m ³ inhalation mouse
Methanol	3.7	67-56-1	5,600 mg/kg oral rat 7,300 mg/kg oral mouse	64,000 ppm/4 hr. inhalation rat 81,000 mg/m ³ /14hr rabbit

TDG PIN



Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing immediately. Wash the affected areas with soap or mild detergent and large amounts of water for at least 15 minutes.

Inhalation: Move individual to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Induce vomiting. Give no more than 2 glasses of water. Get medical attention immediately.

Section 5. Physical Data

Physical State Liquid	Odor and Appearance Fragrant odor, orange, pink	Odor Threshold (ppm) 180 ppm Ethanol	Solubility Soluble in water	Auto-ignition Temp 685°F (362°C)
Vapor Pressure 97mmHg @ 20C (MeOH)	Vapor Density 1.88 (air=1)	Evaporation Rate N/A	Boiling Point 182°F (83.3°C)	Flash Point CC 74°F (24°C)
pH 4-5	Specific Gravity 0.82 Water=1	Coeff. Water/oil Dist. N/A	Freezing Point -65.4°F (-54.1°C)	Flammable Limits LEL – 3.3% UEL – 19%

Section 6. Fire and Explosion

Flammability	Conditions	Fl. Pt - Auto Ignition - Flammable Limits
Flammable Liquid IB	Excessive heat, sparks and open flames.	See Physical Data above

Explosivity

Not explosive under normal conditions of use. Vapors are heavier than air and may settle in low areas. Vapors may travel long distances to an ignition source and flash back explosively. Flame may be invisible. Not sensitive to impact. Probably will not accumulate static charge due to high electrical conductivity, however proper grounding during transfer is recommended

Hazardous Combustion Products
CO, CO ₂ , NO, NO ₂ , SO ₂ , SO ₃

Means to Extinguish
Small Fire – Use DRY chemical powder. Large Fire – Use alcohol foam, water spray or fog

Section 7. Reactivity

Stability	Hazardous Decomposition Products
Product is stable under normal conditions of use.	CO from incomplete combustion

Conditions of Reactivity	Hazardous Polymerization	Incompatibility
N/A	No hazardous polymerization.	Slightly reactive to reactive with oxidizing agents.

Section 8. Toxicological Properties

Routes of Entry N/A Target Organs Skin, eyes and respiratory tract

Effects of Acute Exposure

Eye	Slightly hazardous in case of eye contact (irritant)
Skin	Slightly hazardous (irritant, corrosive). Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering.
Absorption	N/A
Inhalation	Slightly hazardous in case of inhalation
Ingestion	Hazardous in case of ingestion.

Effects of Chronic Exposure

Repeated exposure by inhalation may cause system poisoning, impaired vision or blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure may cause defatting of the skin.

Carcinogenic Effects

Ethanol and methanol are not classified as a human carcinogen. Isopropanol is classified as Group 3 (not classifiable) by IARC.

Reproductive Toxicity Ethyl alcohol when used as a beverage has proven to be toxic to blood, nervous system, reproductive system, liver, gastrointestinal tract, respiratory tract, skin and eyes.

Teratogenic and Mutagenic Effects N/A

Exposure Limits	OSHA PEL TWA	ACGIH TLV TWA	STEL	TWAEV (Ont.)	STEV (Ont.)	CEV (Ont.)
Ethanol	1,900 ppm	1,000 ppm	N/A	1,000 ppm	N/A	N/A
Isopropanol	980 mg/m ³	400 ppm	500 ppm	200 ppm	400 ppm	N/A
Methanol	260 ppm	200 ppm	250 ppm	200 ppm	250 ppm	N/A
Glacial Acetic acid	25 mg/m ³	10 ppm 15 ppm C	15 ppm	10 ppm	15 ppm	N/A
Eosin Y Dye	N/A	N/A	N/A	N/A	N/A	N/A

Section 9. Regulatory Information

OSHA Hazardous Yes	Cal. Prop. 65 Not listed	Canadian WHMIS B2, D1B	RCRA Regulated D001, F003
SARA 302/304 Not listed	SARA 313 MeOH, IPA listed	CERCLA 102A MeOH Listed	RQ 5000 lbs. MeOH
CWA 307 Acetic acid listed	CWA 311 Not Listed	CAA 112 Release Prevention MeOH listed	CAA 112 Reg. Flam. Substance Not listed
CAA 112 Reg. Toxic Substance Not Listed	TSCA Inventory All ingredients listed	EEC Flammability R11 – Highly Flammable	CEPA DSL All Ingredients Listed
Proper US DOT Shipping Name Ethyl alcohol solutions, 3, UN1170 Pg. II	TDG Classification Class 3 Flammable Liquid	IATA Classification Class 3 Flammable Liquid	Limited Quantity Item #01602 only, 49CFR & IMDG only

The information provided above is based upon unused product.

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