

SAFETY DATA SHEET



Product Name: Eosin-Y, Alcoholic

Date: June 1, 2015

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SECTION 1: IDENTIFICATION

Product: Eosin-Y, Alcoholic

Product number: 832

Synonyms: Cytoplasmic stain

Recommended use: Laboratory chemical

Company

Anatech Ltd 1020 Harts Lake Road Battle Creek, MI 49037, USA	24 hour Transportation Emergency Product Technical Information Supplier General Contact	800.424.9300 CHEMTREC 800.262.8324, M-F, 8 AM-5 PM, ET 800.262.8324, M-F, 8 AM-5 PM, ET
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SECTION 2: HAZARD(S) IDENTIFICATION

Classification of substance

Flammable liquid (Category 2)

Acute toxicity, dermal (Category 3)

Acute toxicity, inhalation (Category 3)

Acute toxicity, oral (Category 3)

Skin corrosion/irritation (Category 2)

Eye damage/irritation (Category 2A)

Specific target organ toxicity, single exposure (STOT-SE) (Category 1) (central nervous system, eyes, kidney, liver)

Signal word

Danger

Hazard statement

Highly flammable liquid and vapor.

Toxic in contact with skin.

Toxic if inhaled.

Toxic if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Causes damage to organs.

Pictogram



Precautionary statements

Prevention

Do not breathe mist/vapors/spray.

Wash skin thoroughly after handling.

Use in a well-ventilated area.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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Response

If swallowed: Immediately call a poison center or doctor.

If exposed/concern/do not feel well: Call poison center or get medical advice/attention.

Rinse mouth.

If on skin/hair: Take off immediately all contaminated clothing. Rinse skin with plenty of water/shower.

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

If inhaled: Remove person to fresh air and keep comfortable for breathing.

In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Specific treatment: See Section 4 of this SDS.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

Storage

Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

Store locked up.

Disposal

Dispose of contents/containers in accordance with governmental regulations.

Hazards not otherwise classified

None as defined under 29 CFR 1900.1200

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration
Acetic acid	64-19-7	*
Eosin-Y	17372-87-1	<1%
Methanol	67-56-1	*

*As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

SECTION 4: FIRST-AID MEASURES

Description of first-aid measures

Inhalation	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
Eye	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
Skin	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
Ingestion	Call a poison center immediately.

Important symptoms, acute and delayed

Toxic if swallowed.

Toxic if absorbed through skin. Causes skin irritation.

Causes eye irritation.

May be harmful if inhaled. Causes respiratory irritation.

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Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

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

Specific hazards arising from the product

Hazardous products of combustion: carbon monoxide and carbon dioxide.

Special protective equipment/precautions for fire-fighters

Fire-fighters may wear self-contained breathing apparatus if necessary. Keep unopened containers cool by spraying with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Avoid inhalation of vapors.
Avoid contact with skin and eyes.
Eliminate sources of ignition.
Take precautionary measures against static electricity.

Protective equipment

Wear protective gloves, impermeable aprons and splash-proof goggles.

Emergency procedures

See information in sub-section above.

Methods and materials for containment and cleanup

Eliminate sources of ignition with large spills.
Take precautionary measures against static electricity.
Contain and soak up spill with inert absorbent material. Small spills can be cleaned with a damp sponge.
Discard absorbents and other contaminated solids in a suitable trash receptacle.
Dispose absorbents and other contaminated solids as a hazardous waste.
Wash contaminated area with soap and water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.
Avoid inhalation of vapors.
Wear protective gloves, impermeable aprons and splash-proof goggles.
Use proper grounding procedures for storage and when moving to transfer containers.

Conditions for safe storage including incompatibilities

Keep containers tightly closed in a dry and well-ventilated place.
Store at room temperature.
Flammable liquid.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Acetic acid	64-19-7	OSHA (8 hr TWA)	10 ppm
Eosin-Y	17372-87-1	None established	
Methanol	67-56-1	ACGIH TLV(TWA) ACGIH TLV (STEL) OSHA (8 hr TWA) OSHA STEL	200 ppm 250 ppm 200 ppm 250 ppm

Appropriate engineering controls

Good general room ventilation should be provided so that exposure limits are not exceeded.
If required provide local exhaust ventilation to control vapors.

Personal protective measures

Respiratory protection	None needed for laboratory usage. When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.
Eye protection	Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
Skin protection	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Orange-pink with fluorescent green cast, liquid
Odor	Characteristic methanol odor
Odor threshold	No data available
pH	4.5-4.9
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	66°F (18.9°C) closed cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility(ies)	Eosin-Y dye precipitates out in 50% water.
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

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Possibility of hazardous reaction

The product is chemically stable.

Conditions to avoid

Heat, flames and sparks.
Temperatures greater than flash point.

Incompatible materials

Alkali and strong oxidants.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated. Carbon oxides can form under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, inhalation.

Symptoms related to physical, chemical and toxicological characteristics

The following statements are based on data for undiluted methanol.

Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous.
Ingestion may cause gastrointestinal irritation, headache, dizziness, metabolic acidosis, coma, seizures.
Symptoms may be delayed.
Eye and skin contact causes irritation.

Delayed and immediate effects

See information in sub-section above.

Chronic effects from short- and long-term exposure

Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.

Numerical measures of toxicity

The following data are for undiluted methanol.

Acute toxicity, oral (rat)	LD ₅₀ : 1,187-2,769 mg/kg
Acute toxicity, inhalation (rat)	LC ₅₀ : 128.2 m/l, 4 hrs
Acute toxicity, inhalation (rat)	LC ₅₀ : 87.6 m/l, 6 hrs
Acute toxicity, dermal (rabbit)	LD ₅₀ : 17,100 mg/kg
Oral-Human	LDLO: 143 mg/kg Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Lungs, thorax or respiration: dyspnea.

Assessment of other acute effects

Specific target organ toxicity, single exposure (STOT-SE): causes damage to organs (nervous system).

Carcinogenicity

None as defined by 29 CFR 1900.1200.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The following data are from studies using undiluted methanol.

Test	Duration	Organism	Test Results
Toxicity-fish	96 hours	<i>Lepomis macrochirus</i>	LC ₅₀ : 15,400 mg/l
	200 hours	<i>Oryzias latipes</i>	No observed effect concentration 7,900 mg/l
Toxicity-aquatic invertebrates	48 hours	<i>Daphnia magna</i>	EC ₅₀ > 10,000 mg/l
Toxicity-aquatic plants	96 hours	<i>Scenedesmus capricornutum</i>	Growth inhibition EC ₅₀ : 22,000mg/l

Persistence and degradability

Undiluted methanol: readily biodegradable:72% (aerobic-exposure time 5 days).

Biochemical Oxygen Demand (BOD) for undiluted methanol: 600-1,120 mg/g.

Chemical Oxygen Demand (COD) for undiluted methanol: 1,420 mg/g.

Theoretical oxygen demand (ThOD) for undiluted methanol: 1,500 mg/g.

Bioaccumulative potential

Bioconcentration factor (BCF) for undiluted methanol: 1.0

Bioaccumulation for undiluted methanol: *Cyprinus carpio* (Carp), 72 days at 20°C, 5 mg/l.

Mobility in soil

Undiluted methanol will not adsorb on soil.

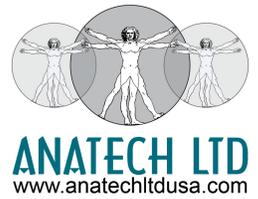
Other adverse effects

Undiluted methanol: avoid release to environment; hydrolyses on contact with water, hydrolyses readily.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

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SECTION 14: TRANSPORT INFORMATION

DOT (USA) and IATA

Proper Shipping Name: Flammable liquid, n.o.s. (methanol)

Identification Number: UN1993

Hazard Class: 3

Packing Group: II

Marine pollutant

No information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

Health	2	Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
Flammability	3	Materials that can be ignited under almost all ambient temperature conditions.
Instability	0	Materials that in themselves are normally stable, even under fire conditions.

Disclaimer

Anatech Ltd. believes the information in the SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn may be from sources other than direct test data on the substance itself. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.

Date of preparation

June 1, 2015