
Safety Data Sheet

According to EC Directive 91/155/EEC

1. Identification of the substance / preparation and of the company / undertaking

Identification of the product: Eosin Yellowish, Conc., 1%

Product name: Eosin Yellowish, Conc., 1%

Company / undertaking identification:

Company:

Emergency telephone No.:

Telefax:

2. Composition / information on ingredients

Chemical characterization: Alcoholic colouring solution

Formula Hill:

Symbol: F

R-phrases: 11

S-phrases:

For Ethanol is:

CAS-number: 64-17-5

EC-number: 200-578-6

For Eosin is:

CAS-number: 17372-87-1

EC-number: 241-409-6

Content: 1 %

3. Hazards identification

Highly flammable.

4. First aid measures

After inhalation: Fresh air.

After skin contact: Wash off with plenty of water. Remove contaminated clothing.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: Immediately make victim drink water (two glasses at the most). Consult doctor in the event of any complaints.

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5. Fire-fighting measures

Suitable extinguishing media: CO₂, foam, powder.

Special risks: Combustible. Vapours heavier than air. Forms explosive mixtures with air at ambient temperatures. Beware of backfiring. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.

Other information: Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

6. Accidental release measures

Procedures for cleaning / absorption: Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

Person-related precautionary measures: Avoid substance contact. Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures: Do not allow to enter sewerage system, risk of explosion!

7. Handling and storage

Handling: Keep away from sources of ignition. Take measures to prevent electrostatic charging.

Storage: Tightly closed in a well-ventilated place, away from sources of ignition and heat. At +15°C to +25°C.

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8. Exposure controls / personal protection

Specific control parameter:

TRGS 900

Name:	Ethanol
Value:	500 ml/m ³ 960 mg/m ³
Peak limit:	Exceeding factor: 2(II)
Embryotoxic	Y Substances with which no foetotoxic risk is to be expected when observing the maximum allowable concentration (MAC) and the biological tolerance value at the workplace (BAT).

Personal protective equipment:

Respiratory protection:	Required when vapours/aerosols are generated.
Eye protection:	Required.
Hand protection:	In full contact: Glove material: butyl rubber Layer thickness: 0.7 mm Breakthrough time: > 480 Min. In splash contact: Glove material: nitrile rubber Layer thickness: 0.40 mm Breakthrough time: > 120 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance. Application of skin- protective barrier cream recommended.

9. Physical and chemical properties

Form:	liquid
Colour:	greenish-yellow
Odour:	like alcohol

pH value:	not available
Melting point:	not available
Boiling point:	not available
Ignition temperature:	~ 425 °C
Flash point:	~ 12 °C
Explosion limits	lower: 3.5 Vol% upper: 15 Vol%
Density:	(20°C) ~ 0.80 g/cm ³
Vapour pressure:	not available
Solubility in water:	(20°C) soluble

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10. Stability and reactivity

Conditions to be avoided:

Warming. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Substances to be avoided:

Risk of explosion with: / Risk if ignition or formation of inflammable gases or vapours with: alkali metals, alkaline earth metals, alkali oxides, strong oxidizing agents, halogen-halogen compounds, CrO₃, chromyl chloride, ethylene oxide, fluorine, perchlorates, potassium permanganate / sulfuric acid, perchloric acid, permanganic acid, phosphorus oxides, nitric acid, nitrogen dioxide, uranium hexafluoride, hydrogen peroxide.

Hazardous decomposition products:

No information available.

Further information:

Unsuitable working materials: various plastics, rubber. Explosible with air in a vaporous / gaseous state.

11. Toxicological information

Acute toxicity:

Quantitative data on the toxicity of this product are not available.

Further toxicological information:

After inhalation of vapours:

Slight mucosal irritations. Risk of absorption.

After skin contact:

After long-term exposure to the chemical: dermatitis.

After eye contact:

Slight irritations.

After swallowing of large amounts:

Nausea and vomiting.

Systemic effect:

Euphoria.

After absorption of large quantities:

Dizziness, inebriation, narcosis, respiratory paralysis.

Other notes:

Possible effects after substance contact: Risk of photo sensitization.

Further data:

The product should be handled with the care usual when dealing with chemicals.

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12. Ecological information

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Further ecologic data: For Ethanol is: In high concentrations: Harmful effect on aquatic organisms. When used properly, no impairments in the function of waste- water-treatment plants are to be expected. Fish: *L. idus* LC₅₀: 8140 mg/l/48 h (anhydrous substance). Daphnia: *Daphnia magna* EC₅₀: 9268-14221 mg/l/48 h (anhydrous substance). Algeal: *Sc. quadricauda* IC₅: 5000 mg/l/7 d (anhydrous substance); Bacterial: *Ps. putida* EC₅: 6500 mg/l/16 h (anhydrous substance). Protozoa: *E. sulcatum* EC₅: 65 mg/l/72 h (anhydrous substance).
No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Road & Rail	ADR, RID UN 1170 Ethanol, Lösung (Ethylalkohol, Lösung), 3, II
Inland waterway	ADN, ADNR not tested
Sea	IMDG-Code UN 1170 Ethanol solution (Ethylalcohol solution), 3, II EmS F-A S-D
Air	CAO, PAX UN 1170 Ethanol solution (Ethylalcohol solution), 3, II

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

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15. Regulatory information

Labelling according to EC Directives:

Symbol:	F	Highly flammable.
R-phrases:	11	Highly flammable.
S-phrases:	7-16	Keep container tightly closed. Keep away from sources of ignition - No smoking.

German regulations:

Storage class VCI:	3 A
Water pollution class:	1 (slightly polluting substance) VwVwS Anh. 4
Data sheet of the Chemical:	M017 Solvents
	M050 Dealing with dangerous substances.

Local regulations on chemical accidents:

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The employment restrictions for young workers in accordance with section 22 of the Youth Employment Protection Law (JArbSchG) are to be observed.

16. Other information

Reason for alteration
General update.

update: August, 2010