SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Product name : Eosin Y, 1% Alcoholic
Product code : RS4015

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet
Avantik Biogroup - Belair Instrument Co.
32 Commerce Street
Springfield, NJ 07081
T 888-392-8411

1.4. Emergency telephone number
Emergency number : 888-392-8411

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Flam. Liq. 2 H225
Acute Tox. 4 (Oral) H302
Carc. 1A H350
Repr. 2 H361
STOT SE 1 H370

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H350 - May cause cancer (oral)
H361 - Suspected of damaging the unborn child (oral)
H370 - Causes damage to organs (central nervous system, optic nerve) (oral)

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe mist, vapors, spray
P264 - Wash exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves, eye protection
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P308+P313 - IF exposed or concerned: Get medical advice/attention
P330 - If swallowed, rinse mouth
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), extinguishing powder to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards
Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients
3.1. Substance
Not applicable
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>(CAS No) 64-17-5</td>
<td>67.12 - 91.08</td>
<td>Flam. Liq. 2, H225 Carc. 1A, H350 Repr. 2, H361</td>
</tr>
<tr>
<td>Methanol</td>
<td>(CAS No) 67-56-1</td>
<td>2.97 - 5.94</td>
<td>Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370</td>
</tr>
<tr>
<td>Eosin Y</td>
<td>(CAS No) 17372-87-1</td>
<td>1</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures
4.1. Description of first aid measures
First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation : May cause respiratory irritation.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Obtain medical assistance.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard : Flammable liquid and vapor.
Explosion hazard : May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters

Firefighting instructions:
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting:
Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:
Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Protective equipment:
Gloves. Safety glasses.

Emergency procedures:
Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment:
Equip cleanup crew with proper protection. Avoid breathing mist, spray.

Emergency procedures:
Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed:
Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling:
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapors, spray.

Hygiene measures:
Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:
Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/… equipment.

Storage conditions:
Keep only in the original container in a cool, well ventilated place away from: Heat sources, Ignition sources, incompatible materials. Keep container tightly closed.

Incompatible products:
Strong oxidizers.

Incompatible materials:
Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Eosin Y, 1% Alcoholic</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³) 1900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm) 1000 ppm</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment: Avoid all unnecessary exposure.

Materials for protective clothing: GIVE EXCELLENT RESISTANCE: nitrile rubber. GIVE POOR RESISTANCE: PVA.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Liquid.
Color: Green
Odor: Alcohol odour
Odor threshold: 100 ppm
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): 2.4
Relative evaporation rate (ether=1): 8.3
Flammability (solid, gas): No data available
Explosion limits: 4.3 - 19 vol %
Explosive properties: None.
Oxidizing properties: None.
Vapor pressure: No data available
Relative density: No data available
Relative vapor density at 20 °C: 1.6
Solubility: Soluble in water. Soluble in ethanol.

Water: Solubility in water of component(s) of the mixture:
- Ethanol: • Isopropanol: • Methanol: >= 100 g/100ml
### Eosin Y, 1% Alcoholic

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>363 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content</td>
<td>60 %</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid


#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products


### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Oral</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>Skin and eye contact</td>
<td>Oral</td>
<td>Harmful if swallowed</td>
</tr>
</tbody>
</table>

#### Eosin Y, 1% Alcoholic

- **ATE US (oral)**: 1683.502 mg/kg body weight

#### Ethanol (64-17-5)

- **LD50 oral rat**: 10740 mg/kg (Rat; Experimental value; Rat; Experimental value)
- **LD50 dermal rabbit**: > 16000 mg/kg (Rabbit; Literature study)
- **ATE US (oral)**: 10740.000 mg/kg body weight

#### Isopropanol (67-63-0)

- **LD50 oral rat**: 5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
- **LD50 dermal rabbit**: 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
- **LC50 inhalation rat (mg/l)**: 73 mg/l/4h (Rat)
- **ATE US (oral)**: 5045.000 mg/kg body weight
- **ATE US (dermal)**: 12870.000 mg/kg body weight
- **ATE US (vapors)**: 73.000 mg/l/4h
- **ATE US (dust, mist)**: 73.000 mg/l/4h

#### Methanol (67-56-1)

- **LD50 oral rat**: > 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
- **LD50 dermal rabbit**: 15800 mg/kg (Rabbit; Literature study)
- **LC50 inhalation rat (mg/l)**: 85 mg/l/4h (Rat; Literature study)
- **LC50 inhalation rat (ppm)**: 64000 ppm/4h (Rat; Literature study)
- **ATE US (oral)**: 100.000 mg/kg body weight
- **ATE US (dermal)**: 300.000 mg/kg body weight
- **ATE US (gases)**: 700.000 ppmV/4h
# Eosin Y, 1% Alcoholic

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Methanol (67-56-1)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (vapors)</td>
<td>3.000 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>0.500 mg/l/4h</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation:** Not classified

**Serious eye damage/irritation:** Not classified

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** May cause cancer (oral).

### Ethanol (64-17-5)

**IARC group:** 1 - Carcinogenic to humans

### Isopropanol (67-63-0)

**IARC group:** 3 - Not classifiable

**Reproductive toxicity:**

- Suspected of damaging the unborn child (oral).

**Specific target organ toxicity (single exposure):**

- Causes damage to organs (central nervous system, optic nerve) (oral).

**Specific target organ toxicity (repeated exposure):** Not classified

**Aspiration hazard:** Not classified

**Potential Adverse human health effects and symptoms:**

- Based on available data, the classification criteria are not met. Harmful if swallowed.
- May cause respiratory irritation.
- Causes skin irritation.
- Causes serious eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ethanol (64-17-5)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>14200 mg/l (96 h; Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>9300 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>10800 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>65 mg/l (72 h; Protozoa)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)</td>
</tr>
</tbody>
</table>

**Isopropanol (67-63-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>9640 mg/l (96 h; Pimephales promelas; Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>13299 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>1800 mg/l (72 h; Algae; Cell numbers)</td>
</tr>
</tbody>
</table>

**Methanol (67-56-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>15400 mg/l (96 h; Lepomis macrochirus; Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l (48 h; Daphnia magna; Lethal)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>24500 mg/l (48 h; Daphnia magna; Locomotor effect)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>6600 mg/l (16 h; Pseudomonas putida)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>530 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>8000 mg/l (168 h; Scenedesmus quadricauda)</td>
</tr>
</tbody>
</table>
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
<th>Biochemical oxygen demand (BOD)</th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
<th>BOD (% of ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosin Y, 1% Alcoholic</td>
<td>Not established.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol (64-17-5)</td>
<td>Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.</td>
<td>0.8 - 0.967 g O₂/g substance</td>
<td>1.70 g O₂/g substance</td>
<td>2.10 g O₂/g substance</td>
<td>0.43 % ThOD</td>
</tr>
<tr>
<td>Isopropanol (67-63-0)</td>
<td>Readily biodegradable in water. Biodegradable in the soil under anaerobic conditions. No test data on mobility of the substance available.</td>
<td>1.19 g O₂/g substance</td>
<td>2.23 g O₂/g substance</td>
<td>2.40 g O₂/g substance</td>
<td>0.49 % ThOD</td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td>Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.</td>
<td>0.6 - 1.12 g O₂/g substance</td>
<td>1.42 g O₂/g substance</td>
<td>1.5 g O₂/g substance</td>
<td>0.8 % ThOD</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosin Y, 1% Alcoholic</td>
<td>Not established.</td>
</tr>
<tr>
<td>Ethanol (64-17-5)</td>
<td></td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>1 (72 h; Cyprinus carpio)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.31 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>Isopropanol (67-63-0)</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>0.05 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td></td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>&lt; 10 (72 h; Leuciscus idus)</td>
</tr>
<tr>
<td>BCF fish 2</td>
<td>1 (72 h; Cyprinus carpio; Blood)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77 (Experimental value; Other)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Surface tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (64-17-5)</td>
<td>0.022 N/m (20 °C)</td>
</tr>
<tr>
<td>Isopropanol (67-63-0)</td>
<td>0.021 N/m (25 °C)</td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td>0.023 N/m (20 °C)</td>
</tr>
</tbody>
</table>
12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1170 Ethanol solutions, 3, II

UN-No.(DOT) : UN1170

Proper Shipping Name (DOT) : Ethanol solutions

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal............. 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Additional information

Other information : No supplementary information available.

ADR

No additional information available
**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Eosin Y, 1% Alcoholic</th>
<th>Immediate (acute) health hazard</th>
<th>Fire hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SARA Section 311/312 Hazard Classes</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Isopropyl Alcohol (2-Propanol)</th>
<th>CAS No 67-63-0</th>
<th>3.465 - 6.435</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>CAS No 67-56-1</td>
<td>2.97 - 5.94</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isopropanol (67-63-0)</th>
<th>Listed on United States SARA Section 313</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
<th>Listed on United States SARA Section 313</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>RQ (Reportable quantity, section 304 of EPA's List of Lists)</th>
<th>5000 lb</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Immediate (acute) health hazard</th>
<th>Fire hazard</th>
</tr>
</thead>
</table>

#### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>Eosin Y, 1% Alcoholic</th>
<th>Class B Division 2 - Flammable Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
</tr>
<tr>
<td></td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isopropanol (67-63-0)</th>
<th>Class B Division 2 - Flammable Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
<th>Class B Division 2 - Flammable Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
<td>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
</tr>
<tr>
<td></td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eosin Y (17372-87-1)</th>
<th>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</th>
</tr>
</thead>
</table>

**EU-Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
Not classified

**National regulations**

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>Listed on IARC (International Agency for Research on Cancer)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
<th>Listed on the Canadian IDL (Ingredient Disclosure List)</th>
</tr>
</thead>
</table>
Eosin Y, 1% Alcoholic
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.3. US State regulations

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosin Y</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**California Proposition 65** - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

#### Methanol (67-56-1)

<table>
<thead>
<tr>
<th>Compound</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>23000 µg/day</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

**Other information** : None.

Full text of H-phrases: see section 16:

- **Acute Tox. 3 (Dermal)**: Acute toxicity (dermal) Category 3
- **Acute Tox. 3 (Inhalation)**: Acute toxicity (inhalation) Category 3
- **Acute Tox. 3 (Oral)**: Acute toxicity (oral) Category 3
- **Acute Tox. 4 (Oral)**: Acute toxicity (oral) Category 4
- **Carc. 1A**: Carcinogenicity Category 1A
- **Eye Irrit. 2A**: Serious eye damage/eye irritation Category 2A
- **Flam. Liq. 2**: Flammable liquids Category 2
- **Repr. 2**: Reproductive toxicity Category 2
- **STOT SE 1**: Specific target organ toxicity (single exposure) Category 1
- **STOT SE 3**: Specific target organ toxicity (single exposure) Category 3
- **H225**: Highly flammable liquid and vapor
- **H301**: Toxic if swallowed
- **H302**: Harmful if swallowed
- **H311**: Toxic in contact with skin
- **H319**: Causes serious eye irritation
- **H331**: Toxic if inhaled
- **H335**: May cause respiratory irritation
- **H350**: May cause cancer
- **H361**: Suspected of damaging fertility or the unborn child
- **H370**: Causes damage to organs

**NFPA health hazard** : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard** : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

**NFPA reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
Eosin Y, 1% Alcoholic
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HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : G

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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07/08/2015 EN (English US)