



**Neutron<sup>®</sup>Pharmaceutical Co.**  
Manufacturer of Laboratory Chemical & Pharmaceutical Materials

# Eosin Y, 0.5% alcoholic solution, Acidic

## Safety Data Sheet

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

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Eosin Y, 0.5% alcoholic solution, Acidic  
Product code : 1.3500  
Formula : no data

#### 1.2. Recommended use and restrictions on use

Recommended use : Scientific research and development, Use as laboratory reagent, Manufacture of substances

#### 1.3. Supplier

NEUTRON PHARMACHEMICAL CO  
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#### 1.4. Emergency telephone number

Emergency number : 125

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                               |                               |
|-----------------------------------------------|-------------------------------|
| Flammable liquids Category 3                  | Flammable liquid and vapor    |
| Acute toxicity (oral) Category 4              | Harmful if swallowed          |
| Serious eye damage/eye irritation Category 2A | Causes serious eye irritation |

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : Flammable liquid and vapor  
Harmful if swallowed  
Causes serious eye irritation

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name          | Product identifier | %       | GHS US classification |
|---------------|--------------------|---------|-----------------------|
| Ethyl alcohol | (CAS-No.) 64-17-5  | 60 – 70 | Flam. Liq. 2, H225    |

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| Name                                         | Product identifier  | %       | GHS US classification                                                                                                                                                          |
|----------------------------------------------|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water                                        | (CAS-No.) 7732-18-5 | 30 – 40 | Not classified                                                                                                                                                                 |
| Acetaldehyde                                 | (CAS-No.) 75-07-0   | 0 – 5   | Flam. Liq. 1, H224<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Muta. 2, H341<br>Carc. 1A, H350<br>STOT SE 3, H335<br>Aquatic Acute 2, H401                           |
| Acetic acid                                  | (CAS-No.) 64-19-7   | 0 – 5   | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Skin Corr. 1A, H314<br>Aquatic Acute 3, H402                                    |
| Methyl alcohol                               | (CAS-No.) 67-56-1   | 0 – 5   | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 1, H370 |
| Ethyl acetate                                | (CAS-No.) 141-78-6  | 0 – 5   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                                                                    |
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS-No.) 108-10-1  | 0 – 5   | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H335                                                                |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Call a physician immediately.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Burns.
- Symptoms/effects after eye contact : Eye irritation. Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable liquid and vapor.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store at room temp. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Storage temperature : Room temperature

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|                                                   |                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------|
| <b>Eosin Y, 0.5% alcoholic solution, Acidic</b>   |                                                                       |
| No additional information available               |                                                                       |
| <b>Acetaldehyde (75-07-0)</b>                     |                                                                       |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                       |
| Local name                                        | Acetaldehyde                                                          |
| ACGIH Ceiling (ppm)                               | 25 ppm                                                                |
| Remark (ACGIH)                                    | TLV® Basis: Eye & URT irr. Notations: A2 (Suspected Human Carcinogen) |
| ACGIH chemical category                           | Suspected Human Carcinogen                                            |
| Regulatory reference                              | ACGIH 2020                                                            |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                       |
| Local name                                        | Acetaldehyde                                                          |
| OSHA PEL (TWA) (mg/m³)                            | 360 mg/m³                                                             |
| OSHA PEL (TWA) (ppm)                              | 200 ppm                                                               |

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|                                                   |                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                                                            |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |                                                                                                     |
| US IDLH (ppm)                                     | 2000 ppm                                                                                            |
| <b>Acetic acid (64-19-7)</b>                      |                                                                                                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                                     |
| ACGIH TWA (ppm)                                   | 10 ppm                                                                                              |
| ACGIH STEL (ppm)                                  | 15 ppm                                                                                              |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                                     |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 25 mg/m <sup>3</sup>                                                                                |
| OSHA PEL (TWA) (ppm)                              | 10 ppm                                                                                              |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |                                                                                                     |
| US IDLH (ppm)                                     | 50 ppm                                                                                              |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                                     |
| NIOSH REL (TWA) (mg/m <sup>3</sup> )              | 25 mg/m <sup>3</sup>                                                                                |
| NIOSH REL TWA [ppm]                               | 10 ppm                                                                                              |
| NIOSH REL (STEL) (mg/m <sup>3</sup> )             | 37 mg/m <sup>3</sup>                                                                                |
| NIOSH REL STEL [ppm]                              | 15 ppm                                                                                              |
| <b>Ethyl acetate (141-78-6)</b>                   |                                                                                                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                                     |
| ACGIH TWA (ppm)                                   | 400 ppm                                                                                             |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                                     |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 1400 mg/m <sup>3</sup>                                                                              |
| OSHA PEL (TWA) (ppm)                              | 400 ppm                                                                                             |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |                                                                                                     |
| US IDLH (ppm)                                     | 2000 ppm (10% LEL)                                                                                  |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                                     |
| NIOSH REL (TWA) (mg/m <sup>3</sup> )              | 1400 mg/m <sup>3</sup>                                                                              |
| NIOSH REL TWA [ppm]                               | 400 ppm                                                                                             |
| <b>Ethyl alcohol (64-17-5)</b>                    |                                                                                                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                                     |
| Local name                                        | Ethanol                                                                                             |
| ACGIH STEL (ppm)                                  | 1000 ppm                                                                                            |
| Remark (ACGIH)                                    | TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)   |
| ACGIH chemical category                           | Confirmed Animal Carcinogen with Unknown Relevance to Humans                                        |
| Regulatory reference                              | ACGIH 2020                                                                                          |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                                     |
| Local name                                        | Ethyl alcohol (Ethanol)                                                                             |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 1900 mg/m <sup>3</sup>                                                                              |
| OSHA PEL (TWA) (ppm)                              | 1000 ppm                                                                                            |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                                                            |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |                                                                                                     |
| US IDLH (ppm)                                     | 3300 ppm (10% LEL)                                                                                  |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                                     |
| NIOSH REL (TWA) (mg/m <sup>3</sup> )              | 1900 mg/m <sup>3</sup>                                                                              |
| NIOSH REL TWA [ppm]                               | 1000 ppm                                                                                            |
| <b>Methyl alcohol (67-56-1)</b>                   |                                                                                                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                                     |
| ACGIH TWA (ppm)                                   | 200 ppm                                                                                             |
| ACGIH STEL (ppm)                                  | 250 ppm                                                                                             |
| ACGIH chemical category                           | Skin - potential significant contribution to overall exposure by the cutaneous route                |
| <b>USA - ACGIH - Biological Exposure Indices</b>  |                                                                                                     |
| Biological Exposure Indices (BEI)                 | 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific) |

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|                                                                |                                                                      |
|----------------------------------------------------------------|----------------------------------------------------------------------|
| <b>USA - OSHA - Occupational Exposure Limits</b>               |                                                                      |
| OSHA PEL (TWA) (mg/m³)                                         | 260 mg/m³                                                            |
| OSHA PEL (TWA) (ppm)                                           | 200 ppm                                                              |
| <b>USA - IDLH - Occupational Exposure Limits</b>               |                                                                      |
| US IDLH (ppm)                                                  | 6000 ppm                                                             |
| <b>USA - NIOSH - Occupational Exposure Limits</b>              |                                                                      |
| NIOSH REL (TWA) (mg/m³)                                        | 260 mg/m³                                                            |
| NIOSH REL TWA [ppm]                                            | 200 ppm                                                              |
| NIOSH REL (STEL) (mg/m³)                                       | 325 mg/m³                                                            |
| NIOSH REL STEL [ppm]                                           | 250 ppm                                                              |
| US-NIOSH chemical category                                     | Potential for dermal absorption                                      |
| <b>Water (7732-18-5)</b>                                       |                                                                      |
| No additional information available                            |                                                                      |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |                                                                      |
| <b>USA - ACGIH - Occupational Exposure Limits</b>              |                                                                      |
| ACGIH TWA (ppm)                                                | 20 ppm                                                               |
| ACGIH STEL (ppm)                                               | 75 ppm                                                               |
| ACGIH chemical category                                        | Confirmed Animal Carcinogen with Unknown Relevance to Humans         |
| <b>USA - ACGIH - Biological Exposure Indices</b>               |                                                                      |
| Biological Exposure Indices (BEI)                              | 1 mg/l Parameter: MIBK - Medium: urine - Sampling time: end of shift |
| <b>USA - OSHA - Occupational Exposure Limits</b>               |                                                                      |
| OSHA PEL (TWA) (mg/m³)                                         | 410 mg/m³                                                            |
| OSHA PEL (TWA) (ppm)                                           | 100 ppm                                                              |
| <b>USA - IDLH - Occupational Exposure Limits</b>               |                                                                      |
| US IDLH (ppm)                                                  | 500 ppm                                                              |
| <b>USA - NIOSH - Occupational Exposure Limits</b>              |                                                                      |
| NIOSH REL (TWA) (mg/m³)                                        | 205 mg/m³                                                            |
| NIOSH REL TWA [ppm]                                            | 50 ppm                                                               |
| NIOSH REL (STEL) (mg/m³)                                       | 300 mg/m³                                                            |
| NIOSH REL STEL [ppm]                                           | 75 ppm                                                               |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                                 |                                                                                                                                                                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                                                                                                                                                                        |
| Appearance                                      | : red colored liquid alcohol odor.                                                                                                                                                                                              |
| Color                                           | : Mixture contains one or more component(s) which have the following colour(s):<br>Colorless clear                                                                                                                              |
| Odor                                            | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour:<br>Fruity vinegar alcohol-like sharp Sweet |
| Odor threshold                                  | : No data available                                                                                                                                                                                                             |
| pH                                              | : No data available                                                                                                                                                                                                             |
| Melting point                                   | : Not applicable                                                                                                                                                                                                                |
| Freezing point                                  | : No data available                                                                                                                                                                                                             |
| Boiling point                                   | : 173 °F                                                                                                                                                                                                                        |
| Flash point                                     | : 51 °F                                                                                                                                                                                                                         |
| Relative evaporation rate (butyl acetate=1)     | : No data available                                                                                                                                                                                                             |
| Flammability (solid, gas)                       | : Not applicable.                                                                                                                                                                                                               |
| Vapor pressure                                  | : 44.6                                                                                                                                                                                                                          |
| Relative vapor density at 20°C                  | : 1.6                                                                                                                                                                                                                           |
| Relative density                                | : No data available                                                                                                                                                                                                             |
| Solubility                                      | : No data available                                                                                                                                                                                                             |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                                                                                                                                                                                             |
| Auto-ignition temperature                       | : No data available                                                                                                                                                                                                             |
| Decomposition temperature                       | : No data available                                                                                                                                                                                                             |
| Viscosity, kinematic                            | : No data available                                                                                                                                                                                                             |
| Viscosity, dynamic                              | : No data available                                                                                                                                                                                                             |
| Explosion limits                                | : No data available                                                                                                                                                                                                             |
| Explosive properties                            | : No data available                                                                                                                                                                                                             |
| Oxidizing properties                            | : No data available                                                                                                                                                                                                             |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapor.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

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|                                                                |                                                                  |
|----------------------------------------------------------------|------------------------------------------------------------------|
| ATE US (oral)                                                  | 500 mg/kg body weight                                            |
| <b>Acetaldehyde (75-07-0)</b>                                  |                                                                  |
| LD50 oral rat                                                  | 660 mg/kg                                                        |
| LC50 Inhalation - Rat [ppm]                                    | 13000 ppm/4h                                                     |
| <b>Acetic acid (64-19-7)</b>                                   |                                                                  |
| LD50 oral rat                                                  | 3310 mg/kg                                                       |
| LD50 dermal rabbit                                             | 1060 mg/kg                                                       |
| LC50 Inhalation - Rat                                          | 11.4 mg/l/4h                                                     |
| <b>Ethyl acetate (141-78-6)</b>                                |                                                                  |
| LD50 oral rat                                                  | 5620 mg/kg                                                       |
| LD50 dermal rabbit                                             | > 18000 mg/kg                                                    |
| LC50 Inhalation - Rat [ppm]                                    | 4000 ppm/4h                                                      |
| <b>Ethyl alcohol (64-17-5)</b>                                 |                                                                  |
| LD50 oral rat                                                  | 7060 mg/kg                                                       |
| LC50 Inhalation - Rat                                          | 124.7 mg/l/4h                                                    |
| <b>Methyl alcohol (67-56-1)</b>                                |                                                                  |
| LD50 oral rat                                                  | 6200 mg/kg                                                       |
| LC50 Inhalation - Rat [ppm]                                    | 22500 ppm (Exposure time: 8 h)                                   |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |                                                                  |
| LD50 oral rat                                                  | 2080 mg/kg                                                       |
| LD50 dermal rabbit                                             | 3000 mg/kg                                                       |
| LC50 Inhalation - Rat                                          | 8.2 mg/l/4h                                                      |
| Skin corrosion/irritation                                      | : Not classified                                                 |
| Serious eye damage/irritation                                  | : Causes serious eye irritation.                                 |
| Respiratory or skin sensitization                              | : Not classified                                                 |
| Germ cell mutagenicity                                         | : Not classified                                                 |
| Carcinogenicity                                                | : Not classified                                                 |
| <b>Acetaldehyde (75-07-0)</b>                                  |                                                                  |
| IARC group                                                     | 2B - Possibly carcinogenic to humans, 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status                         | Reasonably anticipated to be Human Carcinogen                    |
| In OSHA Hazard Communication Carcinogen list                   | Yes                                                              |
| <b>Ethyl alcohol (64-17-5)</b>                                 |                                                                  |
| IARC group                                                     | 1 - Carcinogenic to humans                                       |
| In OSHA Hazard Communication Carcinogen list                   | Yes                                                              |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |                                                                  |
| IARC group                                                     | 2B - Possibly carcinogenic to humans                             |
| National Toxicity Program (NTP) Status                         | Evidence of Carcinogenicity                                      |
| In OSHA Hazard Communication Carcinogen list                   | Yes                                                              |
| Reproductive toxicity                                          | : Not classified                                                 |
| STOT-single exposure                                           | : Not classified                                                 |
| <b>Acetaldehyde (75-07-0)</b>                                  |                                                                  |
| STOT-single exposure                                           | May cause respiratory irritation.                                |
| <b>Ethyl acetate (141-78-6)</b>                                |                                                                  |
| STOT-single exposure                                           | May cause drowsiness or dizziness.                               |

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| <b>Methyl alcohol (67-56-1)</b>                                |                                           |
| STOT-single exposure                                           | Causes damage to organs.                  |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |                                           |
| STOT-single exposure                                           | May cause respiratory irritation.         |
| STOT-repeated exposure                                         | : Not classified                          |
| Aspiration hazard                                              | : Not classified                          |
| Viscosity, kinematic                                           | : No data available                       |
| Symptoms/effects after skin contact                            | : Burns.                                  |
| Symptoms/effects after eye contact                             | : Eye irritation. Serious damage to eyes. |
| Symptoms/effects after ingestion                               | : Burns.                                  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Harmful to aquatic life. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                |                                                                                      |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Acetaldehyde (75-07-0)</b>                                  |                                                                                      |
| LC50 fish 1                                                    | 28.0 – 34.0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1                                                 | 3.64 – 6.15 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])             |
| LC50 fish 2                                                    | 53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                |
| EC50 Daphnia 2                                                 | 48.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| <b>Acetic acid (64-19-7)</b>                                   |                                                                                      |
| LC50 fish 1                                                    | 79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                |
| EC50 Daphnia 1                                                 | 65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                      |
| LC50 fish 2                                                    | 75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                |
| <b>Ethyl acetate (141-78-6)</b>                                |                                                                                      |
| LC50 fish 1                                                    | 220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])   |
| EC50 Daphnia 1                                                 | 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                     |
| LC50 fish 2                                                    | 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])         |
| <b>Ethyl alcohol (64-17-5)</b>                                 |                                                                                      |
| LC50 fish 2                                                    | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])             |
| EC50 Daphnia 2                                                 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                       |
| <b>Methyl alcohol (67-56-1)</b>                                |                                                                                      |
| LC50 fish 1                                                    | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])       |
| LC50 fish 2                                                    | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])             |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |                                                                                      |
| LC50 fish 1                                                    | 496 – 514 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])   |
| EC50 Daphnia 1                                                 | 170 mg/l (Exposure time: 48 h - Species: Daphnia magna)                              |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

|                                                 |                  |
|-------------------------------------------------|------------------|
| <b>Acetaldehyde (75-07-0)</b>                   |                  |
| Partition coefficient n-octanol/water (Log Pow) | 0.5              |
| <b>Acetic acid (64-19-7)</b>                    |                  |
| Partition coefficient n-octanol/water (Log Pow) | -0.31 (at 20 °C) |
| <b>Ethyl acetate (141-78-6)</b>                 |                  |
| BCF fish 1                                      | 30               |
| Partition coefficient n-octanol/water (Log Pow) | 0.6              |

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### Ethyl alcohol (64-17-5)

|                                                 |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | -0.32 |
|-------------------------------------------------|-------|

### Methyl alcohol (67-56-1)

|                                                 |       |
|-------------------------------------------------|-------|
| BCF fish 1                                      | < 10  |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 |

### 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.19 |
|-------------------------------------------------|------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                         |                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information  | : Flammable vapors may accumulate in the container.                                           |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Transport document description | : UN1170 Ethyl alcohol, 3, II                                   |
| UN-No.(DOT)                    | : UN1170                                                        |
| Proper Shipping Name (DOT)     | : Ethyl alcohol                                                 |
| Class (DOT)                    | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Packing group (DOT)            | : II - Medium Danger                                            |
| Hazard labels (DOT)            | : 3 - Flammable liquid                                          |



|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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.<br>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.<br>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ 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) | : 5 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 60 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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Emergency Response Guide (ERG) Number : 127  
Other information : No supplementary information available.

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II  
UN-No. (IMDG) : 1170  
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger  
Limited quantities (IMDG) : 1 L

### Air transport

Transport document description (IATA) : UN 1170 Ethanol solution, 3, II  
UN-No. (IATA) : 1170  
Proper Shipping Name (IATA) : Ethanol solution  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : II - Medium danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Acetaldehyde (75-07-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 1000 lb

#### Acetic acid (64-19-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ 5000 lb

#### Ethyl acetate (141-78-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ 5000 lb

#### Ethyl alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Methyl alcohol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

### 15.2. International regulations

#### CANADA

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|                                                                |     |
|----------------------------------------------------------------|-----|
| <b>Acetaldehyde (75-07-0)</b>                                  |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| Toxic Substance (CEPA – Schedule I)                            | Yes |
| <b>Acetic acid (64-19-7)</b>                                   |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| <b>Ethyl acetate (141-78-6)</b>                                |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| <b>Ethyl alcohol (64-17-5)</b>                                 |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| <b>Methyl alcohol (67-56-1)</b>                                |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| <b>Water (7732-18-5)</b>                                       |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b> |     |
| Listed on the Canadian DSL (Domestic Substances List)          |     |

### EU-Regulations

|                                                                                                    |  |
|----------------------------------------------------------------------------------------------------|--|
| <b>Acetic acid (64-19-7)</b>                                                                       |  |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |  |
| <b>Ethyl acetate (141-78-6)</b>                                                                    |  |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |  |
| <b>Methyl alcohol (67-56-1)</b>                                                                    |  |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |  |
| <b>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</b>                                     |  |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |  |

### National regulations

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Acetaldehyde (75-07-0)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Listed as carcinogen on NTP (National Toxicology Program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Acetic acid (64-19-7)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on KECL/KECI (Korean Existing Chemicals Inventory)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on INSQ (Mexican National Inventory of Chemical Substances)<br>Listed on CICR (Turkish Inventory and Control of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory)                                                              |  |
| <b>Ethyl acetate (141-78-6)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on KECL/KECI (Korean Existing Chemicals Inventory)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law<br>Listed on INSQ (Mexican National Inventory of Chemical Substances)<br>Listed on CICR (Turkish Inventory and Control of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |  |
| <b>Ethyl alcohol (64-17-5)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Listed on IARC (International Agency for Research on Cancer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

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### Methyl alcohol (67-56-1)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Japanese Poisonous and Deleterious Substances Control Law  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)  
 Listed on CICR (Turkish Inventory and Control of Chemicals)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)  
 Listed on CICR (Turkish Inventory and Control of Chemicals)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 15.3. US State regulations

### Acetaldehyde (75-07-0)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-------------------------------------|
| Yes                                                   | No                                                          | No                                                                  | No                                                                | 90 µg/day (inhalation)           |                                     |

### Methyl alcohol (67-56-1)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-------------------------------------|
| No                                                    | Yes                                                         | No                                                                  | No                                                                |                                  | 47000 µg/day inhalation             |

### 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-------------------------------------|
| Yes                                                   | Yes                                                         | No                                                                  | No                                                                |                                  |                                     |

| Component               | State or local regulations                                                                                                                                                                                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acetaldehyde(75-07-0)   | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List                                                                                                                   |
| Acetic acid(64-19-7)    | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Methyl alcohol(67-56-1) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Ethyl acetate(141-78-6) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List |

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| Component                                              | State or local regulations                                                                                                                                                                                                   |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethyl alcohol(64-17-5)                                 | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List                                                                        |
| 4-methylpentan-2-one, isobutyl methyl ketone(108-10-1) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16: Other information

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Revision date : 03/21/2017

#### Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

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.

SDS US (GHS HazCom 2012)

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