1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Material Name: Alcohol 70% (Ethanol 70%) tinted

Trade Name: Not applicable
Chemical Family: Mixture
Intended Use: Pharmaceutical product used as antiseptic, disinfectant

2. HAZARDS IDENTIFICATION

Appearance: Violet solution
Signal Word: WARNING

Statement of Hazard: Flammable liquid and vapor.

Additional Hazard Information:
- Short Term: May cause mild skin irritation (based on animal data). Exposure to high concentrations of gas, vapor, or mist may cause irritation.
- Long Term: Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and, if ingested during pregnancy, congenital malformations.

EU Indication of danger: Flammable

EU Hazard Symbols: F

EU Risk Phrases: R11 - Highly flammable.


Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.
2. HAZARDS IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EU EINECS/ELINCS List</th>
<th>EU Classification</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystal violet (gentian violet)</td>
<td>548-62-9</td>
<td>208-953-6</td>
<td>Xn;R22</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>F;R11</td>
<td>60-100</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Not Listed</td>
<td>*</td>
</tr>
</tbody>
</table>

Additional Information:  
* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact:  
Immediately flush eyes with water for at least 15 minutes. Get medical attention.

Skin Contact:  
Remove contaminated clothing and shoes. If irritation occurs or persists, get medical attention. Wash skin with soap and water.

Ingestion:  
Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation:  
Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure:  
For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media:  
Water spray, carbon dioxide, dry chemical or foam.

Hazardous Combustion Products:  
Carbon monoxide and carbon dioxide

Fire Fighting Procedures:  
During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Fire / Explosion Hazards:  
Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions:  
Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.
Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

Measures for Environmental Protections: Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

### 7. HANDLING AND STORAGE

**General Handling:** Use only in a well-ventilated area. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Keep away from heat, sparks, flame and all other sources of ignition. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

**Storage Conditions:** Store as directed by product packaging.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

**ETHANOL**

<table>
<thead>
<tr>
<th>Source</th>
<th>Threshold Limit Value (STEL)</th>
<th>TWA</th>
<th>MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>1000 ppm</td>
<td>1000 ppm, 1880 mg/m³</td>
<td>1000 ppm, 1900 mg/m³</td>
</tr>
<tr>
<td>Australia TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austria OEL - MAKs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belgium OEL - TWA</td>
<td>1000 ppm</td>
<td>1907 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Bulgaria OEL - TWA</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Czech Republic OEL - TWA</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Denmark OEL - TWA</td>
<td>1000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estonia OEL - TWA</td>
<td>500 ppm</td>
<td>1000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Finland OEL - TWA</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>France OEL - TWA</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Germany - TRGS 900 - TWAs</td>
<td>500 ppm</td>
<td>960 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Germany (DFG) - MAK</td>
<td>500 ppm</td>
<td>960 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Greece OEL - TWA</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Hungary OEL - TWA</td>
<td>1900 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latvia OEL - TWA</td>
<td>1000 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithuania OEL - TWA</td>
<td>500 ppm</td>
<td>1000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Netherlands OEL - TWA</td>
<td>260 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA - Final PELS - TWAs: 1000 ppm
1900 mg/m³

Poland OEL - TWA 1900 mg/m³
Portugal OEL - TWA 1000 ppm
Romania OEL - TWA 1000 ppm
1900 mg/m³

Slovakia OEL - TWA 500 ppm
960 mg/m³

Slovenia OEL - TWA 1000 ppm
1900 mg/m³

Spain OEL - TWA 1000 ppm
1910 mg/m³

Sweden OEL - TWAs 500 ppm
1000 mg/m³

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

- Hands: Wear impervious gloves.
- Eyes: Wear safety glasses or goggles if eye contact is possible.
- Skin: Wear protective clothing when working with large quantities.
- Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

Water Solubility: Soluble

Boiling Point (°C): 78.5 based on major component Ethanol

Vapor Pressure (kPa): 7.91 (Ethanol)

Vapor Density (g/ml): 1.59 (Ethanol)

Flash Point (Liquid) (°C): 12.8 Closed cup based on major component (Ethanol)

Upper Explosive Limits (Liquid) (% by Vol.): 19

Lower Explosive Limits (Liquid) (% by Vol.): 3.3

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Keep away from heat, spark, flames and all other sources of ignition.

Incompatible Materials: Strong oxidizing agents and strong inorganic acids
11. TOXICOLOGICAL INFORMATION

General Information: There are no data for this formulation. The information included in this section describes the potential hazards of the individual ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

ETHANOL

- Rat Oral LD 50 7060 mg/kg
- Mouse Oral LD 50 3450 mg/kg
- Rat Inhalation LC 50 20000 ppm/10H
- Mouse Inhalation LC 50 39 gm/m^3/4h

Crystal violet (gentian violet)

- Rat Oral LD50 420 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

ETHANOL

- Eye Irritation Rabbit Severe
- Skin Irritation Rabbit Mild

Carcinogen Status: Carcinogenicity of the mixture has not been determined. Consumption of alcoholic beverages is considered carcinogenic to humans (Group 1) by IARC, though ethanol itself has not been classified by this agency. No other components are listed as carcinogens by IARC, US OSHA or NTP.

ETHANOL

- IARC: Group 1 (Carcinogenic to Humans)
- OSHA: Listed

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

ETHANOL

- Oncorhynchus mykiss (Rainbow Trout) NPDES LC-50 96 Hours 12900 mg/L
- Fingerling Trout NPDES LC-50 24 Hours 11200 mg/L
- Fathead Minnow NPDES LC-50 96 Hours 14200 mg/L

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.
14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.

UN number: UN 1170
UN proper shipping name: Ethanol solution
Transport hazard class(es): 3
Packing group: II
Flash Point (°C): 12.8

Limited Quantity Exceptions apply to small quantities packed in combination packaging. See applicable modal regulations for specific limitations.

IMDG IMDG
IMDG UN / ID No: UN 1170
IMDG Proper shipping name: Ethanol solution
IMDG Hazard Class: 3
IMDG Packing Group: II
Flash Point (°C): 12.8

15. REGULATORY INFORMATION

EU Symbol: F
EU Indication of danger: Flammable

EU Risk Phrases: R11 - Highly flammable.

EU Safety Phrases: S16 - Keep away from sources of ignition - No smoking.
S25 - Avoid contact with eyes.

OSHA Label:
WARNING
Flammable liquid and vapor.

Canada - WHMIS: Classifications
WHMIS hazard class:
Class B, Division 2
Class D, Division 2, Subdivision B
15. REGULATORY INFORMATION

Water

| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| REACH - Annex IV - Exemptions from the obligations of Register: | Present |
| EU EINECS/ELINCS List | 231-791-2 |

Crystal violet (gentian violet)

| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| Standard for the Uniform Scheduling for Drugs and Poisons: | Schedule 4 |
| REACH - Carcinogens Category 2: | Present |
| EU EINECS/ELINCS List | 208-953-6 |

ETHANOL

| California Proposition 65 | carcinogen initial date 4/29/11 |
| development toxic initial date 10/1/87 |
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| EU EINECS/ELINCS List | 200-578-6 |

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R11 - Highly flammable.
R22 - Harmful if swallowed.

Data Sources: Publicly available toxicity information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage. Updated Section 11 - Toxicology Information. Updated Section 14 - Transport Information.

Prepared by: Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

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End of Safety Data Sheet