



# MATERIAL SAFETY DATA SHEET

Revision date: 29-Nov-2012

Version: 1.1

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

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### Material Name: Special Methylated Spirits 70%

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

## 2. HAZARDS IDENTIFICATION

**Appearance:** Clear, colorless, liquid  
**Signal Word:** WARNING

**Statement of Hazard:** Flammable liquid and vapor.  
Causes severe eye irritation.  
Harmful if swallowed, inhaled or absorbed through the skin  
May cause drowsiness or dizziness.

**Additional Hazard Information:**  
**Short Term:**

May cause skin irritation. Exposure to high concentrations of gas, vapor, or mist may cause irritation. Exposure to methanol may produce headache, weakness, drowsiness, lightheadedness, nausea, vomiting, drunkenness, loss of coordination, difficulty breathing, unconsciousness, and coma. Visual effects including blurred vision, double vision, changes in color perception, and blindness may also occur. Severe poisoning may cause liver damage and/or death. Effects may be immediate or delayed.

**EU Indication of danger:** Flammable  
Harmful

**EU Hazard Symbols:**  
F Xn



**EU Risk Phrases:**

R11 - Highly flammable.  
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.  
R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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### 2. HAZARDS IDENTIFICATION

Australian Hazard Classification (NOHSC): Dangerous Goods. Hazardous Substance.

**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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous

| Ingredient     | CAS Number | EU EINECS/ELINCS List | EU Classification                    | %      |
|----------------|------------|-----------------------|--------------------------------------|--------|
| Methyl alcohol | 67-56-1    | 200-659-6             | F;R11<br>T;R23/24/25-<br>39/23/24/25 | 1-10   |
| ETHANOL        | 64-17-5    | 200-578-6             | F;R11                                | 60-100 |

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | % |
|------------|------------|-----------------------|-------------------|---|
| Water      | 7732-18-5  | 231-791-2             | Not Listed        | * |

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

**Ingestion:** Ingestion can cause blindness if not attended to promptly. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

### 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.

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### 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| <b>Health and Safety Precautions:</b>             | 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. |
| <b>Measures for Cleaning / Collecting:</b>        | Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.  |
| <b>Measures for Environmental Protections:</b>    | Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.   |
| <b>Additional Consideration for Large Spills:</b> | 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

|                            |   |
|----------------------------|---|
| <b>General Handling:</b>   | 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. |
| <b>Storage Conditions:</b> | Store as directed by product packaging.   |

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

#### Methyl alcohol

|                                     |  |
|-------------------------------------|--|
| ACGIH Threshold Limit Value (TWA)   | 200 ppm  |
| ACGIH Threshold Limit Value (STEL)  | 250 ppm  |
| ACGIH - Biological Exposure Limit:  | 15 mg/L  |
| ACGIH - Skin Absorption Designation | Skin - potential significant contribution to overall exposure by the cutaneous route |
| Australia STEL                      | 250 ppm<br>328 mg/m <sup>3</sup>   |
| Australia TWA                       | 200 ppm<br>262 mg/m <sup>3</sup>   |
| Austria OEL - MAKs                  | 200 ppm<br>260 mg/m <sup>3</sup>   |
| Belgium OEL - TWA                   | 200 ppm<br>266 mg/m <sup>3</sup>   |
| Bulgaria OEL - TWA                  | 260.0 mg/m <sup>3</sup>  |
| Cyprus OEL - TWA                    | 200 ppm<br>260 mg/m <sup>3</sup>   |
| Czech Republic OEL - TWA            | 250 mg/m <sup>3</sup>  |
| Denmark OEL - TWA                   | 200 ppm<br>260 mg/m <sup>3</sup>   |
| Estonia OEL - TWA                   | 200 ppm<br>250 mg/m <sup>3</sup>   |
| Finland OEL - TWA                   | 200 ppm<br>270 mg/m <sup>3</sup>   |

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|  |                                  |
|--|----------------------------------|
| France OEL - TWA                             | 200 ppm<br>260 mg/m <sup>3</sup> |
| Germany - TRGS 900 - TWAs                    | 200 ppm<br>270 mg/m <sup>3</sup> |
| Germany (DFG) - MAK                          | 200 ppm<br>270 mg/m <sup>3</sup> |
| Germany - Biological Exposure Limit:         | 30 mg/L                          |
| Greece OEL - TWA                             | 200 ppm<br>260 mg/m <sup>3</sup> |
| Hungary OEL - TWA                            | 260 mg/m <sup>3</sup>            |
| Ireland OEL - TWAs                           | 200 ppm<br>260 mg/m <sup>3</sup> |
| Italy OEL - TWA                              | 200 ppm<br>260 mg/m <sup>3</sup> |
| Latvia OEL - TWA                             | 200 ppm<br>260 mg/m <sup>3</sup> |
| Lithuania OEL - TWA                          | 200 ppm<br>260 mg/m <sup>3</sup> |
| Luxembourg OEL - TWA                         | 200 ppm<br>260 mg/m <sup>3</sup> |
| Malta OEL - TWA                              | 200 ppm<br>260 mg/m <sup>3</sup> |
| Netherlands OEL - TWA                        | 133 mg/m <sup>3</sup><br>100 ppm |
| OSHA - Final PELs - TWAs:                    | 200 ppm<br>260 mg/m <sup>3</sup> |
| Poland OEL - TWA                             | 100 mg/m <sup>3</sup>            |
| Portugal OEL - TWA                           | 200 ppm                          |
| Romania OEL - TWA                            | 200 ppm<br>260 mg/m <sup>3</sup> |
| Romania - Biological Exposure Limit:         | 6 mg/L                           |
| Slovakia OEL - TWA                           | 200 ppm<br>260 mg/m <sup>3</sup> |
| Slovak Republic - Biological Exposure Limit: | 30 mg/L                          |
| Slovenia OEL - TWA                           | 200 ppm<br>260 mg/m <sup>3</sup> |
| Spain OEL - TWA                              | 200 ppm<br>266 mg/m <sup>3</sup> |
| Spain - Biological Exposure Limit:           | 15 mg/L                          |
| Sweden OEL - TWAs                            | 200 ppm<br>250 mg/m <sup>3</sup> |

### ETHANOL

|                                    |                                    |
|------------------------------------|------------------------------------|
| ACGIH Threshold Limit Value (STEL) | 1000 ppm                           |
| Australia TWA                      | 1000 ppm<br>1880 mg/m <sup>3</sup> |
| Austria OEL - MAKs                 | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Belgium OEL - TWA                  | 1000 ppm<br>1907 mg/m <sup>3</sup> |
| Bulgaria OEL - TWA                 | 1000.0 mg/m <sup>3</sup>           |
| Czech Republic OEL - TWA           | 1000 mg/m <sup>3</sup>             |

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                           |                                    |
|---------------------------|------------------------------------|
| Denmark OEL - TWA         | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Estonia OEL - TWA         | 500 ppm<br>1000 mg/m <sup>3</sup>  |
| Finland OEL - TWA         | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| France OEL - TWA          | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Germany - TRGS 900 - TWAs | 500 ppm<br>960 mg/m <sup>3</sup>   |
| Germany (DFG) - MAK       | 500 ppm<br>960 mg/m <sup>3</sup>   |
| Greece OEL - TWA          | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Hungary OEL - TWA         | 1900 mg/m <sup>3</sup>             |
| Latvia OEL - TWA          | 1000 mg/m <sup>3</sup>             |
| Lithuania OEL - TWA       | 500 ppm<br>1000 mg/m <sup>3</sup>  |
| Netherlands OEL - TWA     | 260 mg/m <sup>3</sup>              |
| OSHA - Final PELs - TWAs: | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Poland OEL - TWA          | 1900 mg/m <sup>3</sup>             |
| Portugal OEL - TWA        | 1000 ppm                           |
| Romania OEL - TWA         | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Slovakia OEL - TWA        | 500 ppm<br>960 mg/m <sup>3</sup>   |
| Slovenia OEL - TWA        | 1000 ppm<br>1900 mg/m <sup>3</sup> |
| Spain OEL - TWA           | 1000 ppm<br>1910 mg/m <sup>3</sup> |
| Sweden OEL - TWAs         | 500 ppm<br>1000 mg/m <sup>3</sup>  |

|   |  |
|---|--|
| <b>Engineering Controls:</b>            | 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. |
| <b>Environmental Exposure Controls:</b> | Refer to specific Member State legislation for requirements under Community environmental legislation.   |
| <b>Personal Protective Equipment:</b>   | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).  |
| <b>Hands:</b>                           | Wear impervious gloves.  |
| <b>Eyes:</b>                            | Wear safety glasses or goggles if eye contact is possible.   |
| <b>Skin:</b>                            | Wear protective clothing when working with large quantities.   |
| <b>Respiratory protection:</b>          | 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.   |

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                   |         |                    |         |
|-------------------|---------|--------------------|---------|
| Physical State:   | Liquid  | Color:             | Clear   |
| Odor:             | Alcohol | Molecular Formula: | Mixture |
| Molecular Weight: | Mixture |                    |         |

|                       |                                       |
|-----------------------|---------------------------------------|
| 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)

##### Methyl alcohol

|     |            |         |            |
|-----|------------|---------|------------|
| Rat | Oral       | LD50    | 5628 mg/kg |
| Rat | Inhalation | LC50/4h | 64000 ppm  |

##### 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 <sup>3</sup> /4h |

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

##### Methyl alcohol

|                 |        |          |
|-----------------|--------|----------|
| Skin Irritation | Rabbit | Moderate |
| Eye Irritation  | Rabbit | Moderate |

##### ETHANOL

|                 |        |        |
|-----------------|--------|--------|
| Eye Irritation  | Rabbit | Severe |
| Skin Irritation | Rabbit | Mild   |

#### Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

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## 11. TOXICOLOGICAL INFORMATION

### Methyl alcohol

|                                  |       |            |            |       |   |
|----------------------------------|-------|------------|------------|-------|---|
| Prenatal & Postnatal Development | Rat   | Inhalation | 20,000 ppm | LOAEL | Developmental toxicity, Maternal toxicity |
| Prenatal & Postnatal Development | Mouse | Inhalation | 1,000 ppm  | NOAEL | Developmental toxicity                    |

**Carcinogen Status:** None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

### 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)

#### Methyl alcohol

*Pimephales promelas* (Fathead Minnow) LC50 96 Hours 29.4 mg/L

#### ETHANOL

|  |       |       |          |            |
|--|-------|-------|----------|------------|
| <i>Oncorhynchus mykiss</i> (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.

#### Methyl alcohol

**RCRA - U Series Wastes** Listed

## 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.

|                                    |                           |
|------------------------------------|---------------------------|
| <b>UN number:</b>                  | UN 1993                   |
| <b>UN proper shipping name:</b>    | Flammable liquid, n.o.s., |
| <b>Technical Shipping Name:</b>    | (Ethanol, Methanol)       |
| <b>Transport hazard class(es):</b> | 3                         |
| <b>Packing group:</b>              | II                        |
| <b>Flash Point (°C):</b>           | 12.8                      |

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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 1993  
IMDG Proper shipping name: Flammable Liquid, n.o.s. (ethanol, methanol)  
IMDG Hazard Class: 3  
IMDG Packing Group: II  
Flash Point (°C): 12.8

## 15. REGULATORY INFORMATION

EU Symbol: F , Xn  
EU Indication of danger: Flammable  
Harmful

### EU Risk Phrases:

R11 - Highly flammable.  
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.  
R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

### EU Safety Phrases:

S16 - Keep away from sources of ignition - No smoking.  
S28 - After contact with skin, wash immediately with plenty of water.  
S36/37 - Wear suitable protective clothing and gloves.

### OSHA Label:

WARNING  
Flammable liquid and vapor.  
Causes severe eye irritation.  
Harmful if swallowed, inhaled or absorbed through the skin  
May cause drowsiness or dizziness.

### Canada - WHMIS: Classifications

#### WHMIS hazard class:

Class B, Division 2  
Class D, Division 2, Subdivision B



Methyl alcohol



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## 15. REGULATORY INFORMATION

|   |   |
|---|---|
| CERCLA/SARA 313 Emission reporting                                | 1.0 %                                       |
| CERCLA/SARA Hazardous Substances and their Reportable Quantities: | 5000 lb<br>2270 kg                          |
| California Proposition 65   | Developmental toxicity initial date 3/16/12 |
| Inventory - United States TSCA - Sect. 8(b)                       | Present                                     |
| Australia (AICS):   | Present                                     |
| Standard for the Uniform Scheduling for Drugs and Poisons:        | Schedule 5<br>Schedule 6                    |
| EU EINECS/ELINCS List   | 200-659-6                                   |

### 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 |

### ETHANOL

|   |  |
|---|--|
| California Proposition 65                   | carcinogen initial date 4/29/11<br>developmental toxicity 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.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R39/26/27/28 - Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**Data Sources:** Publicly available toxicity information.

**Reasons for Revision:** Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.  
Updated Section 7 - Handling and Storage. Updated Section 14 - Transport Information.

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

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**