



MATERIAL SAFETY DATA SHEET

Revision date: 03-Dec-2007

Version: 1.0

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

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Emergency telephone number:
ChemSafe (24 hours): +44 (0)208 762 8322

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:



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.

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

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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	Classification	%
Methyl alcohol	67-56-1	200-659-6	F;R11 T;R23/24/25- 39/23/24/25	1-10
ETHANOL	64-17-5	200-578-6	F;R11	60-100

Ingredient	CAS Number	EU EINECS/ELINCS List	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.

6. ACCIDENTAL RELEASE MEASURES

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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.
Storage Conditions:	Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, flame, and other sources of ignition. Keep container tightly closed when not in use.

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 TWA
ACGIH Threshold Limit Value (STEL)	= 250 ppm STEL
ACGIH - Skin Absorption Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Australia STEL	= 250 ppm STEL = 328 mg/m ³ STEL
Australia TWA	= 200 ppm TWA = 262 mg/m ³ TWA
Austria OEL - MAKs	= 200 ppm MAK = 260 mg/m ³ MAK
Belgium OEL - TWA	= 200 ppm TWA = 266 mg/m ³ TWA
Bulgaria OEL - TWA	= 50.0 mg/m ³ TWA
Cyprus OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Czech Republic OEL - TWA	= 250 mg/m ³ TWA
Denmark OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Estonia OEL - TWA	= 200 ppm TWA = 250 mg/m ³ TWA
Finland OEL - TWA	= 200 ppm TWA = 270 mg/m ³ TWA

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France OEL - TWA	= 200 ppm VME = 260 mg/m ³ VME
Germany - TRGS 900 - TWAs	= 200 ppm TWA = 270 mg/m ³ TWA
Greece OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Hungary OEL - TWA	= 260 mg/m ³ TWA
Ireland OEL - TWAs	= 200 ppm TWA = 260 mg/m ³ TWA
Latvia OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Lithuania OEL - TWA	= 200 ppm IPRV = 260 mg/m ³ IPRV
Luxembourg OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Netherlands OEL - TWA	= 200 ppm MAC = 260 mg/m ³ MAC
OSHA - Final PELs - TWAs:	= 200 ppm TWA = 260 mg/m ³ TWA
Poland OEL - TWA	= 100 mg/m ³ NDS
Portugal OEL - TWA	= 200 ppm TWA
Romania OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Slovakia OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Slovenia OEL - TWA	= 200 ppm TWA = 260 mg/m ³ TWA
Spain OEL - TWA	= 200 ppm VLA-ED = 266 mg/m ³ VLA-ED
Sweden OEL - TWAs	= 200 ppm LLV = 250 mg/m ³ LLV

ETHANOL

ACGIH Threshold Limit Value (TWA)	= 1000 ppm TWA
Australia TWA	= 1000 ppm TWA = 1880 mg/m ³ TWA
Austria OEL - MAKs	= 1000 ppm MAK = 1900 mg/m ³ MAK
Belgium OEL - TWA	= 1000 ppm TWA = 1907 mg/m ³ TWA
Bulgaria OEL - TWA	= 1000.0 mg/m ³ TWA
Czech Republic OEL - TWA	= 1000 mg/m ³ TWA
Denmark OEL - TWA	= 1000 ppm TWA = 1900 mg/m ³ TWA
Estonia OEL - TWA	= 1000 mg/m ³ TWA = 500 ppm TWA
Finland OEL - TWA	= 1000 ppm TWA = 1900 mg/m ³ TWA
France OEL - TWA	= 1000 ppm VME = 1900 mg/m ³ VME
Germany - TRGS 900 - TWAs	= 500 ppm TWA = 960 mg/m ³ TWA

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Greece OEL - TWA	= 1000 ppm TWA = 1900 mg/m ³ TWA
Hungary OEL - TWA	= 1900 mg/m ³ TWA
Ireland OEL - TWAs	= 1000 ppm TWA = 1900 mg/m ³ TWA
Latvia OEL - TWA	= 1000 mg/m ³ TWA
Lithuania OEL - TWA	= 1000 mg/m ³ IPRV = 500 ppm IPRV
Netherlands OEL - TWA	= 1000 mg/m ³ MAC = 500 ppm MAC
OSHA - Final PELs - TWAs:	= 1000 ppm TWA = 1900 mg/m ³ TWA
Poland OEL - TWA	= 1900 mg/m ³ NDS
Portugal OEL - TWA	= 1000 ppm TWA
Romania OEL - TWA	= 1000 ppm TWA = 1900 mg/m ³ TWA
Slovakia OEL - TWA	= 500 ppm TWA = 960 mg/m ³ TWA
Slovenia OEL - TWA	= 1000 ppm TWA = 1900 mg/m ³ TWA
Spain OEL - TWA	= 1000 ppm VLA-ED = 1910 mg/m ³ VLA-ED
Sweden OEL - TWAs	= 1000 mg/m ³ LLV = 500 ppm LLV

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.

Personal Protective Equipment:

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:

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	

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10. STABILITY AND REACTIVITY

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
Polymerization: Will not occur

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/m³/4h

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))

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.

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)

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Methyl alcohol

Fathead minnow LC50 96 Hours 29.4 mg/L

ETHANOL

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

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered.

Methyl alcohol

RCRA - U Series Wastes

waste number U154 (Ignitable waste)

14. TRANSPORT INFORMATION

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

Proper shipping name: Flammable liquid, n.o.s.,
Technical Shipping Name: (Ethanol, Methanol)
UN / ID No: UN 1993
Hazard class: 3
Flash Point (°C): 12.8
Packing group: II

Limited Quantity Exceptions may apply for small quantities packed in combination packaging. See applicable DOT/IATA/IMDG modal regulations for specific instructions.

IMDG

IMDG Proper shipping name: Flammable Liquid, n.o.s.
IMDG Technical Shipping Name: (ethanol, methanol)
Name:
IMDG UN / ID No: UN 1993
IMDG Hazard Class: 3
Flash Point (°C): 12.8
IMDG Packing Group: II

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.

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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

CERCLA/SARA 313 Emission reporting = 1.0 % de minimis concentration

CERCLA/SARA Hazardous Substances and their Reportable Quantities: = 2270 kg final RQ
= 5000 lb final RQ
Inventory - United States TSCA - Sect. 8(b) Present

Australia (AICS): Present

Standard for the Uniform Scheduling for Drugs and Poisons: Schedule 5
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 developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

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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 orreversible effects through inhalation, in contact with skin and if swallowed.

Data Sources: Publicly available toxicity information.

Reasons for Revision: New data sheet.

Prepared by: Toxicology and Hazard Communication
Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet