



MATERIAL SAFETY DATA SHEET

Revision date: 22-Oct-2008

Version: 1.1

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

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Material Name: Alcohol 70% Spray Pack (Sterile)

Trade Name:	Not applicable
Synonyms:	Alcohol 70% Untinted (Squeeze Pack)
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.

Additional Hazard Information:

Short Term: May cause eye irritation. 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.

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.

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2. HAZARDS IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
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: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

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.

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.

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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. Wash hands and any exposed skin after removal of PPE. 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 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.

ETHANOL

ACGIH Threshold Limit Value (TWA)	= 1000 ppm TWA
Australia TWA	= 1000 ppm TWA = 1880 mg/m ³ TWA
Austria OEL - MAKs	Listed
Belgium OEL - TWA	Listed
Bulgaria OEL - TWA	Listed
Czech Republic OEL - TWA	Listed
Denmark OEL - TWA	Listed
Estonia OEL - TWA	Listed
Finland OEL - TWA	Listed
France OEL - TWA	Listed
Germany - TRGS 900 - TWAs	= 500 ppm TWA = 960 mg/m ³ TWA
Germany (DFG) - MAK	= 500 ppm MAK = 960 mg/m ³ MAK
Greece OEL - TWA	Listed
Hungary OEL - TWA	Listed
Ireland OEL - TWAs	= 1000 ppm TWA = 1900 mg/m ³ TWA
Latvia OEL - TWA	Listed
Lithuania OEL - TWA	Listed
Netherlands OEL - TWA	Listed
OSHA - Final PELs - TWAs:	= 1000 ppm TWA = 1900 mg/m ³ TWA
Poland OEL - TWA	Listed
Portugal OEL - TWA	Listed
Romania OEL - TWA	Listed
Slovenia OEL - TWA	Listed
Spain OEL - TWA	Listed
Sweden OEL - TWAs	= 1000 mg/m ³ LLV = 500 ppm LLV

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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:

Physical State:	Liquid	Color:	Colorless
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

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	3450mg/kg
Rat	Inhalation	LC 50	20000ppm/10H
Mouse	Inhalation	LC 50	39gm/m ³ /4h

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11. TOXICOLOGICAL INFORMATION

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

ETHANOL

Eye Irritation	Rabbit	Severe
Skin Irritation	Rabbit	Mild

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)

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. 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

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

Proper shipping name: Ethanol solution
UN / ID No: UN 1170
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: Ethanol solution

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14. TRANSPORT INFORMATION

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

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



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)
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-578-6

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R11 - Highly flammable.

Data Sources:

Publicly available toxicity information.

Reasons for Revision:

Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.
Updated Section 2 - Hazard Identification. Updated Section 4 - First Aid Measures. Updated
Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal
Protection. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory
Information.

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