MATERIAL SAFETY DATA SHEET

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

Pfizer Inc
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1-212-573-2222

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Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

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

Material Name: Dehydrated Alcohol in Water for Injection

Trade Name: Not applicable
Chemical Family: Not determined
Intended Use: Diluent

2. HAZARDS IDENTIFICATION

Appearance: Clear liquid
Signal Word: WARNING

Statement of Hazard: Flammable liquid and vapor.

Additional Hazard Information:
Short Term: May cause eye irritation. May cause respiratory tract irritation. (based on components) .
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:

EU Risk Phrases:
R11 - Highly flammable.

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

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates 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	%
Ethyl alcohol (ethanol)	64-17-5	200-578-6	F;R11	20

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Water for injection	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: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

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

Fire / Explosion Hazards: Highly flammable. 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.

Measures for Cleaning / Collecting: Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal.

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: Restrict access to work area. Avoid open handling. Minimize generating airborne mists and vapors. Use process containment, local exhaust ventilation or perform work under fume hood/fume cupboard. Avoid inhalation and contact with skin, eye, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided.

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Ethyl alcohol (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
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. Keep airborne contamination levels below the exposure limits listed above in this section. General room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Equipment:

Hands:	Wear impervious gloves if skin contact is possible.
Eyes:	Safety glasses or goggles
Skin:	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
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
Molecular Formula:	Mixture	**Molecular Weight:**	Mixture

Boiling Point (°C): 79 Ethanol

Flash Point (Liquid) (°C): 13 (Ethanol)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual ingredients.

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

Ethyl alcohol (ethanol)
Mouse Oral LD50 3450 mg/kg
Rat Oral LD50 7060 mg/kg
Rat Inhalation LC50 10h 20,000 ppm

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

Ethyl alcohol (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: Environmental properties have not been investigated. Releases to the environment should be avoided.

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

Ethyl alcohol (ethanol)
Rainbow Trout LC50/96h 12,900-15,300 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.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations. Aqueous products containing alcohol at 24 percent or less are not subject to the requirements of the EU ADR, IATA, or IMDG. They are similarly exempt from US DOT requirements provided that they contain no less than 50 percent water.

15. REGULATORY INFORMATION

EU Symbol: F
EU Indication of danger: Flammable

EU Risk Phrases:

R11 - Highly flammable.

EU Safety Phrases:

S 2 - Keep out of the reach of children.
S 7 - Keep container tightly closed.
S16 - Keep away from sources of ignition - No smoking.

OSHA Label:
WARNING
Flammable liquid and vapor.

Canada - WHMIS: Classifications

WHMIS hazard class:
B2 flammable liquids

Water for injection

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

Ethyl alcohol (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

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 11 - Toxicology Information. Updated Section 14 - Transport Information.

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

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