

Revision date: 03-Jun-2008 Version: 1.1 Page 1 of 9

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

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-212-573-2222 Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

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: Chlorhexidine in Alcohol 70%

Trade Name: Not applicable Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antiseptic, disinfectant

2. HAZARDS IDENTIFICATION

Appearance: Red liquid Signal Word: WARNING

Statement of Hazard: Flammable liquid and vapor.
Causes severe eye irritation.

May cause drowsiness or dizziness.

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:



EU Risk Phrases:

R11 - Highly flammable.

Australian Hazard Classification

(NOHSC):

Dangerous Goods. Hazardous Substance.

D700740

Material Name: Chlorhexidine in Alcohol 70% Page 2 of 9
Revision date: 03-Jun-2008 Version: 1.1

Nevision date. 03-3dir-2000

2. HAZARDS IDENTIFICATION

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	%
ETHANOL	64-17-5	200-578-6	F;R11	60-100
Chlorhexidine Gluconate	18472-51-0	242-354-0	Xn;R22	0.5

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Water	7732-18-5	231-791-2	Not Listed	*
Amaranth	915-67-3	213-022-2	Not Listed	*
Carmoisine red E122	3567-69-9	222-657-4	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.

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: Formation of toxic gases is possible during heating or fire. May include oxides of carbon,

nitrogen and products of chlorine.

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

contained breathing apparatus.

Material Name: Chlorhexidine in Alcohol 70% Page 3 of 9
Revision date: 03-Jun-2008 Version: 1.1

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.

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.

Material Name: Chlorhexidine in Alcohol 70% Page 4 of 9 Revision date: 03-Jun-2008 Version: 1.1

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 = 1000 ppm TWA Australia TWA $= 1880 \text{ mg/m}^3 \text{ TWA}$

Austria OEL - MAKs Listed **Belgium OEL - TWA** Listed Listed **Bulgaria OEL - TWA** Czech Republic OEL - TWA Listed **Denmark OEL - TWA** Listed Estonia OEL - TWA Listed **Finland OEL - TWA** Listed Listed France OEL - TWA

= 500 ppm TWA Germany - TRGS 900 - TWAs $= 960 \text{ mg/m}^3 \text{ TWA}$ Germany (DFG) - MAK = 500 ppm MAK

 $= 960 \text{ mg/m}^3 \text{ MAK}$

Greece OEL - TWA Listed **Hungary OEL - TWA** Listed

Ireland OEL - TWAs = 1000 ppm TWA $= 1900 \text{ mg/m}^3 \text{ TWA}$

Latvia OEL - TWA Listed Lithuania OEL - TWA Listed **Netherlands OEL - TWA** Listed

= 1000 ppm TWA **OSHA - Final PELS - TWAs:** $= 1900 \text{ mg/m}^3 \text{ TWA}$

Poland OEL - TWA Listed Portugal OEL - TWA Listed Romania OEL - TWA Listed Slovenia OEL - TWA Listed Spain OEL - TWA Listed

Sweden OEL - TWAs $= 1000 \text{ mg/m}^3 \text{ LLV}$ = 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: 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.

Material Name: Chlorhexidine in Alcohol 70% Page 5 of 9

Revision date: 03-Jun-2008 Version: 1.1

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:LiquidColor:RedOdor:AlcoholMolecular 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

Material Name: Chlorhexidine in Alcohol 70% Page 6 of 9
Revision date: 03-Jun-2008 Version: 1.1

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

Chlorhexidine Gluconate

Rat Oral LD50 2000 mg/kg
Rat Intravenous LD50 24.2 mg/kg
Mouse Oral LD50 1260 mg/kg
Mouse Intravenous LD50 12.9 mg/kg

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

ETHANOL

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Chlorhexidine Gluconate

Eye Irritation Rabbit Moderate

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

Chlorhexidine Gluconate

Embryo / Fetal Development Rat Oral 68 mg/kg/day NOAEL Not teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Chlorhexidine Gluconate

In Vivo Cytogenetics Hamster Negative

In Vivo Dominant Lethal Assay Mouse Negative

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

Amaranth

IARC: Group 3 (Not Classifiable)

Carmoisine red E122

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to

the environment should be avoided.

Material Name: Chlorhexidine in Alcohol 70% Page 7 of 9
Revision date: 03-Jun-2008 Version: 1.1

TOTSION date. 00 dan 2000

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

Flash Point (°C): 12 Packing group: 11

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

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

Material Name: Chlorhexidine in Alcohol 70% Page 8 of 9
Revision date: 03-Jun-2008 Version: 1.1

15. REGULATORY INFORMATION

EU Symbol:

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.

S25 - Avoid contact with eyes.

OSHA Label:

WARNING

Flammable liquid and vapor. Causes severe eye irritation. May cause drowsiness or dizziness.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class B, Division 2

Class D, Division 2, Subdivision B



Water

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

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)

Australia (AICS):

EU EINECS/ELINCS List

Present
200-578-6

Chlorhexidine Gluconate

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

242-354-0

Material Name: Chlorhexidine in Alcohol 70% Page 9 of 9
Revision date: 03-Jun-2008 Version: 1.1

Amaranth

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Present
213-022-2

Carmoisine red E122

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Present
222-657-4

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 1 - Identification of the Substance/Preparation and the Company/Undertaking.

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 8 - Exposure Controls / Personal Protection. Updated Section 13 -

Disposal Considerations.

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