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

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International CHEMTREC (24 hours): +1-703-527-3887

Material Name: Chlorhexidine Aqueous Irrigations 0.1% w/v

Trade Name: Not established Chemical Family: Mixture

Intended Use: Pharmaceutical product used as disinfectant, antiseptic

### 2. HAZARDS IDENTIFICATION

Appearance: Clear blue liquid

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

**Additional Hazard Information:** 

**Short Term:** 

May cause eye irritation (based on components) .

EU Indication of danger: Not classified

**Australian Hazard Classification** 

(NOHSC):

Non-Hazardous Substance. Non-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 | <b>EU EINECS/ELINCS List</b> | <b>EU Classification</b> | %      |
|-------------------------|------------|------------------------------|--------------------------|--------|
| Methylene Blue          | 61-73-4    | 200-515-2                    | Xn;R22                   | 0-0.01 |
| Chlorhexidine Gluconate | 18472-51-0 | 242-354-0                    | Xn;R22                   | 0-1    |

| Ingredient | CAS Number | EU EINECS/ELINCS List EU Classification | n % |
|------------|------------|---|-----|
|            |            |   |     |

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| Water for injection | 7732-18-5  | 231-791-2  | Not Listed | *      |
|---------------------|------------|------------|------------|--------|
| Nonoxynol-9         | 26027-38-3 | Not Listed | Not Listed | 0-0.01 |

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

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safety.

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical

attention.

**Skin Contact:** Remove contaminated clothing and wash exposed area with soap and water. Obtain medical

assistance if irritation occurs.

**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. 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.

Fire / Explosion Hazards: Not applicable

### 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 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.

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### 7. HANDLING AND STORAGE

General Handling: 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. 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

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atmosphere should be controlled with dust collectors, HEPA filtration systems or other

equivalent controls.

**Storage Conditions:** Store as directed by product packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chlorhexidine Gluconate** 

Pfizer Occupational Exposure OEB 4 (control exposure to the range of 1ug/m³ to <10ug/m³)

Band (OEB):

**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: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

**Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear

an appropriate respirator with a protection factor sufficient to control exposures to the bottom of

the OEB range.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:BlueMolecular Formula:MixtureMolecular Weight:Mixture

Water solubility: 23 mg/L@37C Vapor Pressure (kPa): 17.535 mmHg@20C

## 10. STABILITY AND REACTIVITY

**Chemical 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

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### 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)

**Chlorhexidine Gluconate** 

Rat Oral LD50 2000 mg/kg

Rat Para-periosteal LD50 24.2 mg/kg

Mouse Oral LD50 1260 mg/kg

Mouse Intravenous LD50 12.9 mg/kg

Methylene Blue

Rat Oral LD50 1180 mg/kg

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

**Chlorhexidine Gluconate** 

Eye Irritation Rabbit Moderate

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

**Chlorhexidine Gluconate** 

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

Methylene Blue

Fertility and Embryonic Development Rat Oral 125 mg/kg/day NOAEL Developmental toxicity Fertility and Embryonic Development Rat Oral 50 mg/kg/day LOAEL Maternal Toxicity

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.

#### 12. ECOLOGICAL INFORMATION

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

the environment should be avoided.

### 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.

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### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

EU Indication of danger: Not classified

#### **OSHA Label:**

Non-hazardous in accordance with international standards for workplace safety.

#### Canada - WHMIS: Classifications

#### WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

#### **Methylene Blue**

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

Schedule 5
Schedule 7
EU EINECS/ELINCS List

Present
Schedule 4
Schedule 5
Schedule 7

Water for injection

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentREACH - Annex IV - Exemptions from thePresent

obligations of Register:

EU EINECS/ELINCS List 231-791-2

**Chlorhexidine Gluconate** 

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

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15. REGULATORY INFORMATION

EU EINECS/ELINCS List 242-354-0

Nonoxynol-9

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

## **16. OTHER INFORMATION**

### Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed.

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

Reasons for Revision: Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal

Protection.

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** 

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