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

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Material Name: Tobramycin Sulfate Solution, For Injection, IM/IV (Preservative Free)

Trade Name: Tobramycin Injection Chemical Family: Aminoglycoside

Intended Use: Pharmaceutical product used as antibiotic agent

2. HAZARDS IDENTIFICATION

Appearance: Colorless, sterile solution

Signal Word: DANGER

Statement of Hazard: May cause allergic skin reaction.

May damage the unborn child.

Additional Hazard Information:

Short Term: May cause irritation (based on components) .

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on kidneys. **Known Clinical Effects:** May cause effects similar to those seen in clinical use including transient diarrhea, nausea and

abdominal pain. Adverse effects most commonly reported in clinical use include effects on hearing, nausea, vomiting, and vertigo (vestibular ototoxicity), nervous system/brain toxicity (neurotoxicity), kidney toxicity (nephrotoxicity). May cause adverse effects on the developing

fetus. Serious allergic reactions, including anaphylaxis, have been reported.

EU Indication of danger: Irritant

Toxic to reproduction: Category 1

EU Hazard Symbols:



EU Risk Phrases:

R43 - May cause sensitization by skin contact.

R61 - May cause harm to the unborn child.

Australian Hazard Classification

(NOHSC):

Hazardous Substance. Non-Dangerous Goods.

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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 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

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workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Tobramycin sulfate	49842-07-1	256-499-2	Repr. Cat.1;R61 Xi;R43	0-4
Sulfuric acid	7664-93-9	231-639-5	C;R35	**

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Disodium EDTA (dihydrate)	6381-92-6	Not listed	Not Listed	*
Water for injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: * Proprietary

** to adjust pH

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: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other

sulfur-containing compounds.

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

contained breathing apparatus.

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Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

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: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use

appropriate personal protective equipment (see Section 8).

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Sulfuric acid

ACGIH Threshold Limit Value (TWA) $= 0.2 \text{ mg/m}^3 \text{ TWA}$ = 3 mg/m³ STEL **Australia STEL Australia TWA** $= 1 \text{ mg/m}^3 \text{ TWA}$ Austria OEL - MAKs $= 1 \text{ mg/m}^3 \text{ MAK}$ = 1 mg/m³ TWA **Belgium OEL - TWA** $= 1.0 \text{ mg/m}^3 \text{ TWA}$ **Bulgaria OEL - TWA** Czech Republic OEL - TWA $= 1 \text{ mg/m}^3 \text{ TWA}$ **Denmark OEL - TWA** $= 1 \text{ mg/m}^3 \text{ TWA}$ Estonia OEL - TWA $= 1 \text{ mg/m}^3 \text{ TWA}$ Finland OEL - TWA $= 0.2 \text{ mg/m}^3 \text{ TWA}$ $= 1 \text{ mg/m}^3 \text{ VME}$ France OEL - TWA **Greece OEL - TWA** $= 1 \text{ mg/m}^3 \text{ TWA}$ **Hungary OEL - TWA** = 1 mg/m3 TWA Ireland OEL - TWAs $= 1 \text{ mg/m}^3 \text{ TWA}$ = 1 mg/m³ TWA Latvia OEL - TWA Lithuania OEL - TWA = 1 mg/m³ IPRV **Netherlands OEL - TWA** $= 1 \text{ mg/m}^3 \text{ MAC}$ **OSHA - Final PELS - TWAs:** $= 1 \text{ mg/m}^3 \text{ TWA}$ **Poland OEL - TWA** $= 1 \text{ mg/m}^3 \text{ NDS}$ $= 1 \text{ mg/m}^3 \text{ TWA}$ Portugal OEL - TWA $= 0.50 \text{ mg/m}^3 \text{ TWA}$ Romania OEL - TWA Slovakia OEL - TWA $= 0.1 \text{ mg/m}^3 \text{ TWA}$ Slovenia OEL - TWA $= 0.1 \text{ mg/m}^3 \text{ TWA}$ = 1 mg/m³ VLA-ED Spain OEL - TWA Sweden OEL - TWAs $= 1 \text{ mg/m}^3 \text{ LLV}$

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The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Tobramycin sulfate

Pfizer Occupational Exposure OEB2 (control exposure to the range of >100ug/m³ to < 1000ug/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.

Personal Protective Equipment:

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:Sterile solutionColor:ColorlessMolecular Formula:MixtureMolecular Weight:Mixture

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: Strong acids and oxidizers

Polymerization: Will not occur

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)

Tobramycin sulfate

Rat Oral LD50 > 7500 mg/kg Rat Intravenous LD50 133 mg/kg

Sulfuric acid

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Rat Oral LD50 2140 mg/kg

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

Tobramycin sulfate

Eye Irritation Rabbit Slight Skin Irritation Rabbit Slight

Sulfuric acid

Eye Irritation Rabbit Severe

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

Tobramycin sulfate

Reproductive & Fertility Rat Subcutaneous 100 mg/kg/day NOAEL No effects at maximum dose Embryo / Fetal Development Rat Subcutaneous 100 mg/kg/day NOAEL No effects at maximum dose Embryo / Fetal Development Rabbit Subcutaneous 20 mg/kg/day LOAEL Maternal Toxicity, Fetal mortality

Carcinogen Status: None of the components present in this material at concentrations equal to or greater than

0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Sulfuric acid

IARC: Group 1

NTP: Known Carcinogen

OSHA: Present

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

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.

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15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Irritant

Toxic to reproduction: Category 1

EU Risk Phrases:

R43 - May cause sensitization by skin contact. R61 - May cause harm to the unborn child.

EU Safety Phrases:

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

DANGER

May cause allergic skin reaction. May damage the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A Class D, Division 2, Subdivision B



Tobramycin sulfate

California Proposition 65 developmental toxicity, initial date 7/1/90

Australia (AICS): Present

EU EINECS/ELINCS List 256-499-2

Disodium EDTA (dihydrate)

Australia (AICS): Present

Sulfuric acid

CERCLA/SARA 313 Emission reporting = 1.0 % de minimis concentration acid aerosols including mists,

vapors, gas, fog, and other airborne forms of any particle size

CERCLA/SARA Hazardous Substances = 1000 lb final RQ and their Reportable Quantities: = 454 kg final RQ

and their Reportable Quantities: = 454 kg final RQ CERCLA/SARA - Section 302 Extremely Hazardous = 1000 lb TPQ

TPQs

= 1000 lb EPCRA RQ

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CERCLA/SARA - Section 302 Extremely Hazardous

Substances EPCRA RQs

California Proposition 65 carcinogen, initial date 3/14/03

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 6

for Drugs and Poisons:

EU EINECS/ELINCS List 231-639-5

Water for injection

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **REACH - Annex IV - Exemptions from the** Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R35 - Causes severe burns.

R43 - May cause sensitization by skin contact. R61 - May cause harm to the unborn child.

Data Sources: Publicly available toxicity information. Safety data sheets for individual ingredients. Pfizer

proprietary drug development information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet