



MATERIAL SAFETY DATA SHEET

Revision date: 15-Dec-2006

Version: 2.5

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

Pfizer Inc
Pfizer Pharmaceuticals Group
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New York, New York 10017
1-212-573-2222

Pfizer Ltd
Ramsgate Road
Sandwich, Kent
CT13 9NJ
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Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300

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

Material Name: Streptomycin sulfate injection

Trade Name: Streptomycin Sulfate Injection, USP
Chemical Family: Mixture
Intended Use: Pharmaceutical product used as antibiotic agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Streptomycin sulfate	3810-74-0	223-286-0	28
Sodium metabisulfite USP	7681-57-4	231-673-0	*
Phenol	108-95-2	203-632-7	*

Ingredient	CAS Number	EU EINECS List	%
Sodium citrate, anhydrous	68-04-2	200-675-3	*
Water for injection	7732-18-5	231-791-2	*

Additional Information: * Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATION

Appearance: Clear, colorless liquid
Signal Word: DANGER

Statement of Hazard: Harmful if swallowed.
May cause allergic skin reaction.
May damage the unborn child.
May cause damage to nervous system, blood, kidneys, hearing through prolonged or repeated exposure.

Known Clinical Effects: May cause effects similar to those seen in clinical use including transient diarrhea, nausea and abdominal pain. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. Common adverse reactions associated with the clinical use of streptomycin include vestibular ototoxicity (nausea, vomiting, and vertigo); parasthesia of face; rash; fever; urticaria; angioneurotic edema; and eosinophilia. Streptomycin can cause fetal harm. Clinical use of this drug has caused effects on hearing, kidney toxicity (nephrotoxicity), nervous system/brain toxicity (neurotoxicity).

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EU Indication of danger: Harmful
Irritant
Toxic to reproduction: Category 1

EU Hazard Symbols:



EU Risk Phrases: R22 - Harmful if swallowed.
R43 - May cause sensitization by skin contact.
R61 - May cause harm to the unborn child.

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.

4. FIRST AID MEASURES

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

Skin Contact: Wash skin with soap and water. Remove contaminated clothing and shoes. If irritation occurs or persists, get 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: 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.

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.

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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 contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling.

Storage Conditions: Store under refrigeration in closed container.

Storage Temperature: 2-8°C (36-46°F)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Sodium metabisulfite USP

ACGIH Threshold Limit Value (TWA) = 5 mg/m³ TWA

Australia TWA = 5 mg/m³ TWA

Phenol

OSHA - Final PELs - TWAs: = 19 mg/m³ TWA

= 5 ppm TWA

OSHA - Final PELs - Skin Notations: prevent or reduce skin absorption

ACGIH Threshold Limit Value (TWA) = 5 ppm TWA

ACGIH - Skin Absorption Designation Skin - potential significant contribution to overall exposure by the cutaneous route

Australia TWA = 1 ppm TWA

= 4 mg/m³ TWA

The exposure limit(s) listed for solid components are only relevant if dust or mist may be generated.

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.

Streptomycin sulfate

Pfizer Occupational Exposure Band (OEB): OEB 3 - Sensitizer (control exposure to the range of >10ug/m³ to < 100ug/m³, provide additional precautions to protect from skin contact)

Analytical Method: Analytical method available for Streptomycin. Contact Pfizer Inc for further information.

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Use process containment, local exhaust ventilation, or other engineering controls to maintain airborne levels within the OEB range.

Personal Protective Equipment:

Hands: Rubber gloves

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

Skin: Not required for the normal use of this product. Wear protective clothing when working with large quantities.

Respiratory protection: Not required for the normal use of this product. 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:

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Physical State:	Liquid	Color:	Colorless
Odor:	Faint amine-like odor	Molecular Formula:	Mixture
Molecular Weight:	Mixture		
pH:	5 - 8		

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known
Incompatible Materials:	Strong acids and oxidizers

Hazardous Decomposition Products: None expected under normal conditions.

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)

Streptomycin sulfate

Mouse	Oral	LD50	430 mg/kg
Rat	Oral	LD50	430 mg/kg
Rat	Subcutaneous	LD50	600 mg/kg

Phenol

Rat	Oral	LD50	317 mg/kg
Rat	Dermal	LD50	669 mg/kg
Rat	Inhalation	LC50	316 mg/m ³

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

Phenol

Eye Irritation	Rabbit	Severe
Skin Irritation	Rabbit	Severe

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

Streptomycin sulfate

Embryo / Fetal Development	Mouse	1200 mg/kg/day	LOAEL	Fetotoxicity
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Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. See below

Sodium metabisulfite USP

IARC: Group 3

Phenol

IARC: Group 3

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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.

Phenol

RCRA - U Series Wastes

waste number U188

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EU Symbol: T
EU Indication of danger: Harmful
Irritant
Toxic to reproduction: Category 1

EU Risk Phrases:
R22 - Harmful if swallowed.
R43 - May cause sensitization by skin contact.
R61 - May cause harm to the unborn child.

EU Safety Phrases:
S36/37 - Wear suitable protective clothing and gloves.
S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:
DANGER
Harmful if swallowed.
May cause allergic skin reaction.
May damage the unborn child.
May cause damage to nervous system, blood, kidneys, hearing through prolonged or repeated exposure.

Canada - WHMIS: Classifications

WHMIS hazard class:
Class D, Division 2, Subdivision A

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Sodium citrate, anhydrous

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	200-675-3

Water for injection

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	231-791-2

Streptomycin sulfate

California Proposition 65	developmental toxicity, initial date 1/1/91
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS List	223-286-0

Sodium metabisulfite USP

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 5
EU EINECS List	231-673-0

Phenol

CERCLA/SARA 313 Emission reporting	= 1.0 % de minimis concentration
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	= 1000 lb final RQ
CERCLA/SARA - Section 302 Extremely Hazardous TPQs	= 454 kg final RQ
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	= 10000 lb upper threshold TPQ
Inventory - United States TSCA - Sect. 8(b)	= 500 lb lower threshold TPQ
Australia (AICS):	= 1000 lb EPCRA RQ
Standard for the Uniform Scheduling for Drugs and Poisons:	Present
	Present
	Schedule 2
	Schedule 4
	Schedule 5
	Schedule 6
EU EINECS List	203-632-7

16. OTHER 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 a warranty of any kind, expressed or implied.

End of Safety Data Sheet