

Revision date: 15-Dec-2006

Version: 1.3

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

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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: PF-03512676 Sterile Solution

Trade Name:PromuneChemical Family:MixtureIntended Use:Pharmaceutical product for the treatment of lung cancer.

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous

| Ingredient        | CAS Number  | EU EINECS List | %   |
|-------------------|-------------|----------------|-----|
| PF-03512676       | 207623-20-9 | Not listed     | 58  |
| Hydrochloric Acid | 7647-01-0   | 231-595-7      | ### |
| Sodium hydroxide  | 1310-73-2   | 215-185-5      | ### |

| Ingredient                  | CAS Number | EU EINECS List | %   |
|-----------------------------|------------|----------------|-----|
| Sodium chloride             | 7647-14-5  | 231-598-3      | *   |
| Sodium phosphate, dibasic   | 7558-79-4  | 231-448-7      | *   |
| Sodium phosphate, monobasic | 7558-80-7  | 231-449-2      | *   |
| Water for Injection         | 7732-18-5  | 231-791-2      | ### |

 Additional Information:
 \* Proprietary

 ### as required
 ### as required

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

# 3. HAZARDS IDENTIFICATION

| Appearance:<br>Signal Word:                  | Clear sterile solution<br>WARNING   |
|--|---|
| Statement of Hazard:                         | May cause damage to: immune system, kidneys, liver through prolonged or repeated exposure.  |
| Additional Hazard Information:<br>Long Term: | Animal studies indicate that this material may cause adverse effects on the immune system, kidneys, blood, cardiovascular system and liver. |
| Known Clinical Effects:                      | Adverse effects most commonly reported in clinical use include flu-like syndrome, diarrhea, local irritation, thirst, nausea, vomiting.     |
| EU Indication of danger:                     | Harmful   |

#### **EU Hazard Symbols:**



| EU Risk Phrases: | R48 - Danger of serious damage to health by prolonged exposure.   |
|------------------|---|
| 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:  | 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-<br>contained breathing apparatus. |
| Fire / Explosion Hazards:      | Not available   |

# 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<br>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

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| General Handling:   | Avoid open handling. Minimize generation of mists. Use local exhaust or perform work under hood/fume cupboard. Avoid inhalation and contact with skin, eyes, and clothing. When handling, use appropriate personal protective equipment (see Section 8). |  |  |
|---|--|--|--|
| Storage Conditions:   | Store at 2 - 8 °C in properly labeled containers. Protect from light. Do not freeze.   |  |  |
| 8. EXPOSURE CONTROLS /  | PERSONAL PROTECTION  |  |  |
| PF-03512676<br>Pfizer OEL TWA-8 Hr:   | 20ug/m <sup>3</sup>  |  |  |
| Flizer OEL TWA-6 HI.  | Zoug/III-  |  |  |
| Hydrochloric Acid<br>ACGIH Ceiling Threshold Li<br>Australia PEAK   | mit: = 2 ppm Ceiling<br>= 5 ppm Peak<br>= 7.5 mg/m <sup>3</sup> Peak   |  |  |
| Sodium hydroxide<br>OSHA - Final PELS - TWAs:<br>ACGIH Ceiling Threshold Li<br>Australia PEAK<br>The exposure limit(s) listed for | 2 mg/m³         mit:       = 2 mg/m³ Ceiling         = 2 mg/m³ Peak         r solid components are only relevant if dust or mist may be generated.   |  |  |
| 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 below recommended exposure limits.                          |  |  |
| Personal Protective Equipment:  |  |  |  |
| Hands:<br>Eyes:<br>Skin:  | Wear impervious gloves if skin contact is possible.<br>Safety glasses or goggles<br>Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and   |  |  |
| Respiratory protection:   | laboratory areas.<br>If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate<br>respirator with a protection factor sufficient to control exposures to below the OEL.   |  |  |
|   |  |  |  |

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

| Physical State:    |
|--------------------|
| Molecular Formula: |

Sterile solution Mixture Color: Molecular Weight: Clear Mixture

# **10. STABILITY AND REACTIVITY**

| Stability:              | Stable under normal conditions of use. |
|-------------------------|--|
| Conditions to Avoid:    | Light                                  |
| Incompatible Materials: | No data available                      |

# 11. TOXICOLOGICAL INFORMATION

**General Information:** 

The information in this section describes the potential hazards of the individual ingredients and the formulation.

## Active Drug Substance Toxicity Data:

| <u>Acute toxicity</u><br>Species<br>Mouse  | <b>Route</b><br>Intramuscular                               |  |         | End Point<br>Maximally Tolerated Dose                     |                          | <b>Dose (mg/kg)</b><br>1.5   |                                  |
|--|---|--|---------|---|--------------------------|--|----------------------------------|
| Repeated Dose Toxicity<br>Duration<br>4 Week(s)<br>4 Week(s)<br>26 Week(s)<br>26 Week(s) | <b>Species</b><br>Rat<br>Rat<br>Rat<br>Non-human<br>Primate | Route<br>Intravenous<br>Subcutaneous<br>Intravenous<br>Subcutaneous<br>n Subcutaneous<br>Intravenous |         | Dose (mg/kg/day)End Poin2NOAEL0.01LOAEL*0.5LOAEL*0.5LOAEL |                          | Target Organ(s)<br>Kidneys, Liver, Immune system<br>Blood, Immune system, Kidneys<br>Blood, Kidneys, Liver, Immune<br>system<br>Kidneys, Blood, Immune system,<br>Cardiovascular system, Liver |                                  |
| Repeated Dose Toxicity Comr  | nents: *dosir   | ng twice/week  | ζ.      |   |                          |  |                                  |
| Reproduction & Development<br>Study Type   | <u>al Toxicity</u>  | Species  | Route   | Dosa<br>(mg/l   | ge<br>(g/day)            | End Point  | Effect(s)                        |
| Embryo/Fetal Development   |   | Rabbit   | Subcuta |   | 0.3                      | NOAEL  | Maternal toxicity,<br>Fetoxicity |
| Embryo/Fetal Development   |   | Rabbit   | Subcuta | neous   | 5                        | NOAEL  | No effects at maximum dose       |
| Embryo/Fetal Development   |   | Rat  | Subcuta | neous   | 1                        | NOAEL  | Maternal toxicity,<br>Fetoxicity |
| Embryo/Fetal Development   |   | Rat  | Subcuta | neous   | 10                       | NOAEL  | No effects at maximum dose       |
| <u>Genetic Toxicity</u><br>Study Type<br>In Vitro Chromosome Aberratior                  |   | <b>ell Type / Or</b><br>Chinese Hams   | -       | (CHO) cells   | <b>Resul</b> t<br>Negati | -  |                                  |

Negative

Negative

|                                | sen ijper eigenen                 |
|--------------------------------|-----------------------------------|
| In Vitro Chromosome Aberration | Chinese Hamster Ovary (CHO) cells |
| In Vivo Micronucleus           | Mouse                             |
| Bacterial Mutagenicity (Ames)  | Salmonella , E. coli              |
|                                |                                   |

#### Ingredients:

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

#### Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD 50 4000 mg/kg

#### Sodium hydroxide

Mouse IP LD50 40 mg/kg

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

#### Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

#### Sodium phosphate, dibasic

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

## **Hydrochloric Acid**

Skin Irritation Severe Eye Irritation Severe

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| Sodium hydroxide<br>Eye Irritation Rabbit Severe<br>Skin Irritation Rabbit Severe  |  |  |
|--|--|--|
| Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)  |  |  |
| <b>Sodium chloride</b><br>10 Day(s) Rat Oral 12500 mg/kg LOAEL Kidney, Ureter, Bladder                                     |  |  |
| Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. See below . |  |  |
| Hydrochloric Acid<br>IARC: Group 3   |  |  |

# **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.

# **14. TRANSPORT INFORMATION**

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

| 15. REGULATORY INFORMATION |   |  |
|----------------------------|---|--|
| EU Indication of danger:   | Harmful   |  |
| EU Risk Phrases:           | R48 - Danger of serious damage to health by prolonged exposure.   |  |
| EU Safety Phrases:         | S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |  |

May cause damage to: immune system, kidneys, liver through prolonged or repeated exposure.

# Canada - WHMIS: Classifications

### WHMIS hazard class:

Class D, Division 2, and Subdivision B.



Ingredients:

| Hydrochloric 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                                      | = 2270 kg final RQ  |
| and their Reportable Quantities:                                      | = 5000 lb final RQ  |
| CERCLA/SARA - Section 302 Extremely Hazardous<br>TPQs                 | = 500 lb TPQ gas only   |
| CERCLA/SARA - Section 302 Extremely Hazardous<br>Substances EPCRA RQs | = 5000 lb EPCRA RQ gas only                                     |
| Inventory - United States TSCA - Sect. 8(b)                           | Т   |
| Australia (AICS):   | Present   |
| Standard for the Uniform Scheduling                                   | Schedule 5  |
| for Drugs and Poisons:  | Schedule 6  |
| EU EINECS List  | 231-595-7   |
|   |   |
| Sodium hydroxide  |   |
| CERCLA/SARA Hazardous Substances                                      | = 1000 lb final RQ  |
| and their Reportable Quantities:                                      | = 454 kg final RQ   |
| Inventory - United States TSCA - Sect. 8(b)                           | Present   |
| Australia (AICS):   | Present   |
| Standard for the Uniform Scheduling                                   | Schedule 5  |
| for Drugs and Poisons:  | Schedule 6  |
| EU EINECS List  | 215-185-5   |
| Sodium chloride   |   |
| Inventory - United States TSCA - Sect. 8(b)                           | Present   |
| Australia (AICS):   | Present   |
| EU EINECS List  | 231-598-3   |
|   | 201 000 0   |
| Sodium phosphate, dibasic   |   |
| CERCLA/SARA Hazardous Substances                                      | = 2270 kg final RQ  |
| and their Reportable Quantities:                                      | = 5000 lb final RQ  |
| Inventory - United States TSCA - Sect. 8(b)                           | Present   |
| Australia (AICS):   | Present   |
| EU EINECS List  | 231-448-7   |
|   |   |
| Sodium phosphate, monobasic   |   |
| Inventory - United States TSCA - Sect. 8(b)                           | Present   |
| Australia (AICS):   | Present   |
| EU EINECS List  | 231-449-2   |
| Water for Injustion   |   |
| Water for Injection   | Present   |
| Inventory - United States TSCA - Sect. 8(b)                           | FIESEIIL  |
|   |   |

| Australia (AICS):<br>EU EINECS List | Present<br>231-791-2   |  |
|-------------------------------------|--|--|
| 16. OTHER INFORMATIC                | ON   |  |
| Reasons for Revision:               | Updated Section 3 - Hazard Identification. Updated Section 8 - Exposure Controls / Personal<br>Protection. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory<br>Information. |  |
| Prepared by:                        | Toxicology and Hazard Communication<br>Pfizer Global Environment, Health, and Safety   |  |
| Pfizer Inc believes that the infor  | mation contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it  |  |

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End of Safety Data Sheet