

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: Signal Word:	Clear sterile solution WARNING
Statement of Hazard:	May cause damage to: immune system, kidneys, liver through prolonged or repeated exposure.
Additional Hazard Information: 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- 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 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 Pfizer OEL TWA-8 Hr:	20ug/m ³		
Flizer OEL TWA-6 HI.	Zoug/III-		
Hydrochloric Acid ACGIH Ceiling Threshold Li Australia PEAK	mit: = 2 ppm Ceiling = 5 ppm Peak = 7.5 mg/m ³ Peak		
Sodium hydroxide OSHA - Final PELS - TWAs: ACGIH Ceiling Threshold Li Australia PEAK 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: Eyes: Skin:	Wear impervious gloves if skin contact is possible. Safety glasses or goggles Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and		
Respiratory protection:	laboratory areas. 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.		

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> Species Mouse	Route Intramuscular			End Point Maximally Tolerated Dose		Dose (mg/kg) 1.5	
Repeated Dose Toxicity Duration 4 Week(s) 4 Week(s) 26 Week(s) 26 Week(s)	Species Rat Rat Rat Non-human Primate	Route Intravenous Subcutaneous Intravenous Subcutaneous n Subcutaneous Intravenous		Dose (mg/kg/day)End Poin2NOAEL0.01LOAEL*0.5LOAEL*0.5LOAEL		Target Organ(s) Kidneys, Liver, Immune system Blood, Immune system, Kidneys Blood, Kidneys, Liver, Immune system Kidneys, Blood, Immune system, Cardiovascular system, Liver	
Repeated Dose Toxicity Comr	nents: *dosir	ng twice/week	ζ.				
Reproduction & Development Study Type	<u>al Toxicity</u>	Species	Route	Dosa (mg/l	ge (g/day)	End Point	Effect(s)
Embryo/Fetal Development		Rabbit	Subcuta		0.3	NOAEL	Maternal toxicity, Fetoxicity
Embryo/Fetal Development		Rabbit	Subcuta	neous	5	NOAEL	No effects at maximum dose
Embryo/Fetal Development		Rat	Subcuta	neous	1	NOAEL	Maternal toxicity, Fetoxicity
Embryo/Fetal Development		Rat	Subcuta	neous	10	NOAEL	No effects at maximum dose
<u>Genetic Toxicity</u> Study Type In Vitro Chromosome Aberratior		ell Type / Or Chinese Hams	-	(CHO) cells	Resul t 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 Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe		
Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)		
Sodium chloride 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 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 TPQs	= 500 lb TPQ gas only
CERCLA/SARA - Section 302 Extremely Hazardous 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): EU EINECS List	Present 231-791-2	
16. OTHER INFORMATIC	ON	
Reasons for Revision:	Updated Section 3 - Hazard Identification. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory Information.	
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety	
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End of Safety Data Sheet