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

Product Identifier

Material Name: Docetaxel Injection

Trade Name: Docetaxel; Pfizer Docetaxel

Chemical Family: Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Antineoplastic

Details of the Supplier of the Safety Data Sheet

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-800-879-3477

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number:
Poisons Information Centre: 13 1126

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture GHS - Classification

Germ Cell Mutagenicity: Category 2 Reproductive Toxicity: Category 1B

Effects on or via lactation

Flammable liquids- Category 2

EU Classification:

EU Indication of danger: Toxic to reproduction: Category 1

Mutagenic: Category 3

Irritant

EU Risk Phrases:

R10 - Flammable.

R61 - May cause harm to the unborn child. R68 - Possible risk of irreversible effects. R64 - May cause harm to breastfed babies.

Label Elements

Signal Word: Danger

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HAZARDS IDENTIFICATION

Hazard Statements: H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects H360D - May damage the unborn child H362 - May cause harm to breast-fed children

P201 - Obtain special instructions before use **Precautionary Statements:**

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations P370 + P378 - In case of fire: Use Use CO2, extinguishing powder, foam, or water for extinction



Other Hazards **Australian Hazard Classification** (NOHSC):

No data available

Hazardous Substance. Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning 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	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Ethyl alcohol (ethanol)	64-17-5	200-578-6	F; R11	Flam. Liq. 2 (H225)	<40
Citric acid, anhydrous	77-92-9	201-069-1	Not Listed	Not Listed	**
Docetaxel anhydrous	114977-28-5	Not Listed	Repr.Cat.1;R61	Repr. 1B (H360D)	1
-			Mut.Cat.3;R68	Muta. 2 (H341)	
			R64	Eye Irrit. 2A (H319)	
			Xi;R36	Lact. (H362)	
Propylene glycol	57-55-6	200-338-0	Not Listed	Not Listed	*

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Ingredient CAS Number EU EU Classification GHS %
EINECS/ELINCS List
Polysorbate 80 9005-65-6 Not Listed Not Listed *

205-358-3

Additional Information: * Proprietary

** to adjust pH

139-33-3

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

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

Not Listed

Not Listed

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Edetate disodium

Description of 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. For information on potential delayed effects, see Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

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.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire.

Products:

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

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

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6. ACCIDENTAL RELEASE MEASURES

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

Additional Consideration for Non-essential personnel should be evacuated from affected area. Report emergency

Large Spills: situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Flammable liquid and vapor- keep away from ignition sources and clean up spills promptly. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin, and clothing. Use appropriate personal protective equipment. Wash thoroughly after 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. Wash hands and any exposed skin after removal of PPE. 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 atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Ethyl alcohol (ethanol)

ACGIH Threshold Limit Value (STEL)	1000 ppm	
Australia TWA	1000 ppm	
	1880 mg/m ³	
Austria OEL - MAKs	1000 ppm	
	1900 mg/m ³	
Belgium OEL - TWA	1000 ppm	
	1907 mg/m ³	
Bulgaria OEL - TWA	1000.0 mg/m ³	
Czech Republic OEL - TWA	1000 mg/m ³	
Denmark OEL - TWA	1000 ppm	
	1900 mg/m ³	
Estonia OEL - TWA	500 ppm	
	1000 mg/m ³	
Finland OEL - TWA	1000 ppm	
	1900 mg/m ³	
France OEL - TWA	1000 ppm	
	1900 mg/m ³	
Germany - TRGS 900 - TWAs	500 ppm	
	960 mg/m ³	
Germany (DFG) - MAK	500 ppm	
	960 mg/m ³	

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version date. 20-may-2010

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Greece OEL - TWA 1000 ppm 1900 mg/m³ **Hungary OEL - TWA** 1900 mg/m³ Latvia OEL - TWA 1000 mg/m³ Lithuania OEL - TWA mag 003 1000 mg/m³ 260 ma/m³ **Netherlands OEL - TWA OSHA - Final PELS - TWAs:** 1000 ppm 1900 mg/m³ Poland OEL - TWA 1900 mg/m³ 1000 ppm Portugal OEL - TWA Romania OEL - TWA 1000 ppm 1900 mg/m³ 1000 mg/m³ Russia OEL - TWA Slovakia OEL - TWA 500 ppm 960 mg/m³ Slovenia OEL - TWA 1000 ppm 1900 mg/m³ Spain OEL - TWA mag 0001 1910 mg/m³ Sweden OEL - TWAs mag 003 1000 mg/m³ 500 ppm **Switzerland OEL -TWAs**

Vietnam OEL - TWAs

Propylene glycol
Australia TWA 150 ppm

474 mg/m³ 10 mg/m³ 150 ppm

960 mg/m³ 1000 mg/m³

Ireland OEL - TWAs 150 ppm 470 mg/m³

10 mg/m³

Docetaxel anhydrous

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

Band (OEB):

Exposure Controls

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 Refer to applicable national standards and regulations in the selection and use of personal

Equipment: 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 the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solution Color: Clear, colorless to pale

yellow

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available Water Solubility: No data available

pH: 4-7

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Docetaxel anhydrous
No data available
Citric acid, anhydrous
No data available
Polysorbate 80
No data available
Propylene glycol
No data available

Ethyl alcohol (ethanol)

No data available Edetate disodium No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

No data available
No data available

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

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

Hazardous Decomposition No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

D70000

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11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

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

Repeat-dose studies in animals have shown a potential to cause adverse effects on central Long Term:

nervous system, gastrointestinal system, blood and blood forming organs, and testes. Common adverse effects include blood cell changes, nervous system/brain toxicity

(neurotoxicity). Serious allergic reactions, including anaphylaxis, have been reported.

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

Docetaxel anhydrous

Known Clinical Effects:

Rat Oral LD50 > 2000 mg/kg LD50 138mg/kg Mouse IV

Citric acid, anhydrous

Rat Oral LD50 3000 mg/kg

Polysorbate 80

Rat Intravenous LD 50 1790 mg/kg Mouse Oral LD 50 25g/kg

Propylene glycol

Rat Oral LD 50 22,000 mg/kg Mouse Oral LD 50 24,900mg/kg Rabbit Dermal LD 50 20,800mg/kg

Ethyl alcohol (ethanol)

Mouse Oral LD50 3450 mg/kg Rat Oral LD50 7060mg/kg

Inhalation LC50 10h 20,000ppm

Edetate disodium

Rat Oral LD50 2000-2200 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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

Docetaxel anhydrous

Eye Irritation Rabbit Irritant Skin Irritation Rabbit Non-irritating

Skin Sensitization Negative

Citric acid, anhydrous

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Propylene glycol

Skin Irritation Mild Rabbit Eye Irritation Rabbit Mild

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11. TOXICOLOGICAL INFORMATION

Ethyl alcohol (ethanol)

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Docetaxel anhydrous

28-31 Day(s) Rat Intravenous mg/m2/day NOEL Blood forming organs, Male reproductive system 6 Month(s) Rat Intravenous 0.2 mg/kg/day NOEL Blood forming organs, Male reproductive system

6 Month(s) Dog Intravenous 0.375 mg/kg/day LOAEL Male reproductive system

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

Docetaxel anhydrous

Reproductive & Fertility Rat Intravenous mg/kg/day LOAEL Paternal toxicity

Embryo / Fetal Development Rat Intravenous 0.3 mg/kg/day LOAEL Maternal Toxicity, Embryotoxicity, Fetotoxicity, Not

Teratogenic

Embryo / Fetal Development Rabbit Intravenous 0.03 mg/kg/day LOAEL Embryotoxicity, Fetotoxicity, Maternal Toxicity,

Not Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Docetaxel anhydrous

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Micronucleus Mouse Positive

In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Positive

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Ethyl alcohol (ethanol)

IARC: Group 1 (Carcinogenic to Humans)

12. ECOLOGICAL INFORMATION

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

should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Docetaxel anhydrous

Daphnia magna (Water Flea) LC50 48 Hours > 3.3 mg/L

Ethyl alcohol (ethanol)

Oncorhynchus mykiss (Rainbow Trout) LC50/96h 12,900-15,300 mg/L

Aquatic Toxicity Comments: A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum

solubility. Since the substance is insoluble in aqueous solutions above this concentration, an

acute ecotoxicity value (i.e. LC/EC50) is not achievable.

Persistence and Degradability: No data available

PZ00906

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Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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.

14. TRANSPORT INFORMATION

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

This material is regulated for transportation as a hazardous material/dangerous good.

UN number: UN 1170

UN proper shipping name: Ethanol solution

Transport hazard class(es): 3
Packing group: |||

Flash Point (°C): 24

Flash Point (°C): 24

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications
WHMIS hazard class:

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



Polysorbate 80

CERCLA/SARA 313 Emission reporting

Not Listed

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15. REGULATORY INFORMATION

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
Not Listed

Edetate disodium

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

205-358-3

Ethyl alcohol (ethanol)

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen initial date 4/29/11 in alcoholic beverages

developmental toxicity initial date 10/1/87 in alcoholic beverages

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-578-6

Citric acid, anhydrous

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Present

201-069-1

Docetaxel anhydrous

CERCLA/SARA 313 Emission reporting

California Proposition 65

Not Listed

Not Listed

Standard for the Uniform Scheduling

Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Propylene glycol

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Present

200-338-0

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Reproductive toxicity-Cat.1B; H360D - May damage the unborn child Germ cell mutagenicity-Cat.2; H341 - Suspected of causing genetic defects Reproductive toxicity, effects on or via lactation; H362 - May cause harm to breast-fed children Flammable liquids-Cat.2; H225 - Highly flammable liquid and vapor

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F - Highly flammable

Toxic to reproduction: Category 1

Mutagenic: Category 3

Xi - Irritant

Prepared by:

R11 - Highly flammable. R36 - Irritating to eyes.

R61 - May cause harm to the unborn child. R64 - May cause harm to breastfed babies. R68 - Possible risks of irreversible effects.

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

Reasons for Revision: Updated Section 11 - Toxicology Information. Updated Section 1 - Identification of the

Substance/Preparation and the Company/Undertaking. Updated Section 7 - Handling and Storage. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 16 - Other Information. Updated Section 12 -

Ecological Information.

Revision date: 20-May-2015

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
