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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

1-000-079-3477

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

Label Elements

Signal Word: Danger

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

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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 CO2, extinguishing powder, foam, or water for extinction





Other Hazards Note:

No data available

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 EINECS/ELINCS List	GHS Classification	%
Ethyl alcohol (ethanol)	64-17-5	200-578-6	Flam. Liq. 2 (H225)	<40
Citric acid, anhydrous	77-92-9	201-069-1	Not Listed	**
Docetaxel anhydrous	114977-28-5	Not Listed	Repr. 1B (H360D) Muta. 2 (H341) Eye Irrit. 2A (H319) Lact. (H362)	1
Propylene glycol	57-55-6	200-338-0	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%
		List		
Polysorbate 80	9005-65-6	Not Listed	Not Listed	*
Edetate disodium	139-33-3	205-358-3	Not Listed	*

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Additional Information: * Proprietary

** to adjust pH

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

been withheld as a trade secret.

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

4. FIRST AID MEASURES

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
Aggravated by Exposure:

None known

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:

Fire / 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

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

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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.

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

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.

1000 ppm

Conditions for Safe Storage, Including any Incompatibilities

ACGIH Threshold Limit Value (STEL)

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical product used as Antineoplastic

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Ethyl alcohol (ethanol)

ACGIT THESHOLD LITTLE VALUE (STEL)	тооо ррпп
Australia TWA	1000 ppm
	1880 mg/m ³
Austria OEL - MAKs	1000 ppm
	1900 mg/m ³
Belgium OEL - TWA	1000 ppm
g	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
Definition OLE TWA	1900 mg/m ³
Estonia OEL - TWA	500 ppm
Estonia GEL TWA	1000 mg/m ³
Finland OEL - TWA	1000 ppm
Tillialia OEE TWA	1900 mg/m ³
France OEL - TWA	1000 mg/m
Transc SEE TWA	1900 mg/m ³
Germany - TRGS 900 - TWAs	500 ppm
Comany 1100 300 111/AS	960 mg/m ³
Germany (DFG) - MAK	500 ppm
Comany (DI O) MAR	960 mg/m ³
Greece OEL - TWA	1000 ppm
OICCOC OLL TWA	1900 mg/m ³
Hungary OEL - TWA	1900 mg/m ³
Latvia OEL - TWA	1000 mg/m ³
Lithuania OEL - TWA	500 ppm
Liulualiia OEL - I WA	1000 mg/m ³
Netherlands OEL - TWA	260 mg/m ³
Netherlands OEL - I WA	200 mg/m

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA - Final PELS - TWAs: 1000 ppm 1900 mg/m³ **Poland OEL - TWA** 1900 mg/m³ Portugal OEL - TWA 1000 ppm Romania OEL - TWA 1000 ppm 1900 mg/m³ **Russia OEL - TWA** 1000 ma/m³ Slovakia OEL - TWA mag 003 960 mg/m³ 1000 ppm Slovenia OEL - TWA

Sweden OEL - TWAs

1900 mg/m³

500 ppm

1000 mg/m³

Switzerland OEL -TWAs500 ppm
960 mg/m³

Vietnam OEL - TWAs 1000 mg/m³

Propylene glycol

Australia TWA 150 ppm

474 mg/m³ 10 mg/m³

Ireland OEL - TWAs 150 ppm

470 mg/m³ 10 mg/m³ 7 mg/m³

Latvia OEL - TWA 7 mg/m³ Lithuania OEL - TWA 7 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 Re

Equipment:

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solution Color: Clear, colorless to pale

vellow

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

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

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Nevision date. 01-Mai-2010

9. PHYSICAL AND CHEMICAL PROPERTIES

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):No data availableFlammability (Solids):No data available

Flash Point (Liquid) (°C):

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

No data available
Lower Explosive Limits (Liquid) (% by Vol.):

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:

Known Clinical Effects:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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) .

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

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.

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11. TOXICOLOGICAL INFORMATION

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

Docetaxel anhydrous

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

Citric acid, anhydrous

Rat Oral LD50 3000 mg/kg

Polysorbate 80

Rat Intravenous LD 50 1790 mg/kg Mouse Oral LD 50 25 g/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 Rat 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 Rabbit Mild Eye Irritation Rabbit Mild

Ethyl alcohol (ethanol)

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

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

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11. TOXICOLOGICAL INFORMATION

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

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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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

Polysorbate 80

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

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

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15. REGULATORY INFORMATION

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
Present
Present
201-069-1

Docetaxel anhydrous

CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedStandard for the Uniform SchedulingSchedule 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

Present

200-338-0

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
Present
Present
205-358-3

16. OTHER INFORMATION

Text of CLP/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

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

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 7 - Handling and Storage. Updated Section 2 - Hazard Identification.

Revision date: 01-Mar-2016

Product Stewardship Hazard Communication

Prepared by: 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

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