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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name	Gemcitabine (gemcitabine hydrochloride) for Injection (Hospira, Inc.)
Product Code(s)	PZ03241
Synonyms	Gemcitabine for Injection, USP (Lyophilized)
Trade Name:	Not applicable
Chemical Family:	Mixture

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** 

Pharmaceutical product used as Antineoplastic

1.3. Details of the supplier of the safety data sheet

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045 1-800-879-3477

E-mail address

United Kingdom pfizer-MSDS@pfizer.com

# 1.4. Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300 International Chemtrec (24 hours):+1-703-527-3887

Hospira UK Limited

Maidenhead, SL6 6RJ

Horizon

Hurley

Honey Lane

# Section 2: HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

GHS - Classification: Regulated according to Regulation (EC) 1272/2008 and/or other applicable regulations.

Acute toxicity - Oral Skin corrosion/irritation Serious eye damage/eye irritation Germ cell mutagenicity Reproductive toxicity	Category 4 - (H302) Category 2 - (H315) Category 2A - (H319) Category 1B - (H340) Category 1B - (H360FD)	
OSHA Classification Physical Hazard	Combustible Dust	
<u>2.2. Label elements</u> Signal word	Danger	
Hazard statements	H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H360FD - May damage fertility. May damage the unborn child H340 - May cause genetic defects	

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OSHA - May form combustible dust concentrations in air

P201 - Obtain special instructions before use

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

- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P264 Wash hands thoroughly after handling
- P308 + P313 IF exposed or concerned: Get medical attention/advice
- P302+ P352 IF ON SKIN: Wash with plenty of soap and water
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
- unwell
- P330 Rinse mouth P405 - Store locked up
- P501 Dispose of contents/container in accordance with all local and national regulations



2.3. Other hazards Other hazards

Note:

An Occupational Exposure Value has been established for one or more of the ingredients (see Section 8).

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients 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.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances Substances

Not applicable

### 3.2 Mixtures

Hazardous

Chemical name	Weight-%	REACH	EC No	Classification	Specific	M-Factor	M-Factor
Chemical hame	Weight-70	Registration	LONO	according to	concentration	M-I actor	(long-term)
		•		U U			(iong-term)
		Number		Regulation	limit (SCL)		
				(EC) No.			
				1272/2008			
				[CLP]			
Gemcitabine	45-55		Not Listed	Acute Tox. 4	Not Listed	No data	No data
hydrochloride				(H302)		available	available
(CAS #:				Eye Irrit. 2B			
122111-03-9)				(H319)			
,				Skin Irrit. 2			
				(H315)			

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				Repr. 1B (H360FD) Muta. 1B (H340)			
Sodium hydroxide (CAS #: 1310-73-2)	**	-	215-185-5	Skin Corr.1A (H314)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	No data available	No data available
+ Hydrochloric Acid (CAS #: 7647-01-0)	**	-	231-595-7	Acute Tox. 3 (H331) Skin Corr. 1A (H314) Press. Gas	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25% STOT SE 3 :: C>=10%	No data available	No data available
Chemical name	Weight-%	REACH Registration Number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium acetate trihydrate (CAS #: 6131-90-4)	*		Not Listed	Not classified as hazardous	Not Listed	No data available	No data available
Mannitol (CAS #: 69-65-8)	*	-	200-711-8	Not classified as hazardous	Not Listed	No data available	No data available

### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Gemcitabine hydrochloride 122111-03-9	>500	No data available	No data available	No data available	No data available
Sodium hydroxide 1310-73-2	325	1350	No data available	No data available	No data available
Mannitol 69-65-8	13500	No data available	No data available	No data available	No data available
+ Hydrochloric Acid 7647-01-0	238	5010	No data available	No data available	563.3022

Additional information

\* Proprietary

\*\* to adjust pH

+ Substance with a Union workplace exposure limit

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. Non-hazardous ingredients provided for

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completeness.

Section 4: FIRST AID MEAS	JRES				
4.1. Description of first aid measur	es				
Inhalation	Remove to fresh air. Seek immediate medical attention/advice.				
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.				
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.				
4.2. Most important symptoms and	effects, both acute and delayed				
Most important symptoms and effects	For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.				
4.3. Indication of any immediate me	edical attention and special treatment needed				
Note to physicians	None.				
Section 5: FIRE-FIGHTING N	IEASURES				
5.1. Extinguishing media					
Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.				
5.2. Special hazards arising from the	ne substance or mixture				
Specific hazards arising from the chemical	Fine particles (such as dust and mists) may fuel fires/explosions.				
Hazardous combustion products	Formation of toxic gases is possible during heating or fire.				
5.3. Advice for firefighters					
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.				
Section 6: ACCIDENTAL RE	LEASE MEASURES				
6.1. Personal precautions, protecti	ve equipment and emergency procedures				
Personal precautions	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.				
For emergency responders	Use personal protection recommended in Section 8.				
6.2. Environmental precautions					
Environmental precautions	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.				

# 6.3. Methods and material for containment and cleaning up

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Methods for containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. Avoid use of a filtered vacuum to clean spills of dry solids. Contain the source of the spill or leak. Clean spill area thoroughly. Collect spilled material by a method that controls dust generation.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

# Advice on safe handling

Restrict access to work area. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Store as directed by product packaging.

7.3. Specific end use(s)

Specific use(s)

Pharmaceutical drug product. Antineoplastic.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### **Exposure Limits**

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

### Gemcitabine hydrochloride

Pfizer OEL TWA-8 Hr: 0.05 µg/m<sup>3</sup> Sodium hydroxide

odium hydroxide	
ACGIH OEL (Ceiling)	2 mg/m <sup>3</sup>
ACGIH TLV	Ceiling: 2 mg/m <sup>3</sup>
Austria	2 mg/m <sup>3</sup>
	STEL 4 mg/m <sup>3</sup>
Bulgaria	2.0 mg/m <sup>3</sup>
Czech Republic	1 mg/m <sup>3</sup>
	Ceiling: 2 mg/m <sup>3</sup>
Denmark	Ceiling: 2 mg/m <sup>3</sup>
Estonia	1 mg/m <sup>3</sup>
	STEL: 2 mg/m <sup>3</sup>
Finland	Ceiling: 2 mg/m <sup>3</sup>
France	2 mg/m <sup>3</sup>
Hungary	1 mg/m <sup>3</sup>
0.7	STEL: 2 mg/m <sup>3</sup>
Ireland	STEL: 2 mg/m <sup>3</sup>
Ceiling Limit Value	2 mg/m <sup>3</sup>
Latvia	0.5 mg/m <sup>3</sup>
Poland	STEL: 1 mg/m <sup>3</sup>
	0

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		0.5
	Romania	0.5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>
	Nomania	STEL: 3 mg/m <sup>3</sup>
	Slovakia	$2 \text{ mg/m}^3$
	Spain	STEL: 2 mg/m <sup>3</sup>
	Switzerland	2 mg/m <sup>3</sup>
		STEL: 2 mg/m <sup>3</sup>
	OSHA PEL	2 mg/m <sup>3</sup>
		(vacated) Ceiling: 2 mg/m <sup>3</sup>
Ма	United Kingdom Innitol	STEL: 2 mg/m <sup>3</sup>
IVId	Russia	MAC: 10 mg/m <sup>3</sup>
+ F	lydrochloric Acid	W/Xe: To mg/m
• •	ACGIH OEL (Ceiling)	2 ppm
	ACGIHTLV	Ceiling: 2 ppm
	Austria	5 ppm
		8 mg/m <sup>3</sup>
		STEL 10 ppm
		STEL 15 mg/m <sup>3</sup>
	Bulgaria	STEL: 10 ppm
		STEL: 15.0 mg/m <sup>3</sup>
		5 ppm 8.0 mg/m³
	Czech Republic	8 mg/m <sup>3</sup>
		Ceiling: 15 mg/m <sup>3</sup>
	Estonia	5 ppm
		8 mg/m <sup>3</sup>
		STEL: 10 ppm
		STEL: 15 mg/m <sup>3</sup>
	European Union	TWA: 5 ppm
		TWA: 8 mg/m <sup>3</sup>
		STEL: 10 ppm STEL: 15 mg/m <sup>3</sup>
	Finland	STEL: 5 ppm
	T III alia	STEL: 7.6 mg/m <sup>3</sup>
	Germany	2 ppm
	,	3.0 mg/m <sup>3</sup>
		Ceiling / Peak: 4 ppm
		Ceiling / Peak: 6 mg/m <sup>3</sup>
	Germany	2 ppm
	Hungony	3 mg/m <sup>3</sup>
	Hungary	8 mg/m <sup>3</sup> STEL: 16 mg/m <sup>3</sup>
	Ireland	8 mg/m <sup>3</sup>
		5 ppm
		STEL: 10 ppm
		STEL: 15 mg/m <sup>3</sup>
	Italy	5 ppm
		8 mg/m <sup>3</sup>
		STEL: 10 ppm
	Ceiling Limit Value	STEL: 15 mg/m <sup>3</sup>
		2 ppm 3.0 mg/m <sup>3</sup>
	Latvia	5 ppm
		8 mg/m <sup>3</sup>
		STEL: 10 ppm
		STEL: 15 mg/m <sup>3</sup>
	Netherlands	8 mg/m <sup>3</sup>
		STEL: 15 mg/m <sup>3</sup>

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Poland		STEL: 10 mg/m <sup>3</sup>	
		5 mg/m³	
Romania		5 ppm	
		8 mg/m <sup>3</sup>	
		STEL: 10 ppm	
		STEL: 15 mg/m <sup>3</sup>	
Russia		MAC: 5 mg/m <sup>3</sup>	
Slovakia			
Siuvania		5 ppm	
		8.0 mg/m <sup>3</sup>	
Spain		5 ppm	
		7.6 mg/m <sup>3</sup>	
		STEL: 10 ppm	
		STEL: 15 mg/m <sup>3</sup>	
Switzerland		2 ppm	
		3 mg/m <sup>3</sup>	
		STEL: 4 ppm	
		STEL: 6 mg/m <sup>3</sup>	
U.S OSHA - Final PELs - Ceilin	n Limits	5 ppm	
	9		
		7 mg/m <sup>3</sup>	
OSHA PEL		(vacated) Ceiling: 5 ppm	
		(vacated) Ceiling: 7 mg/m <sup>3</sup>	
		Ceiling: 5 ppm	
		Ceiling: 7 mg/m <sup>3</sup>	
United Kingdom		TWA: 1 ppm	
C C		TWA: 2 mg/m <sup>3</sup>	
		STEL: 5 ppm	
		STEL: 8 mg/m <sup>3</sup>	
8.2. Exposure controls			
Engineering controls	room ventilation is adequative airborne contamination le	build be used as the primary means to control exposures. General uate unless the process generates dust, mist or fumes. Keep evels below the exposure limits listed above in this section. It is perations be fully enclosed and no air recirculated.	
Environmental exposure controls	No information available.		
Personal protective equipment	Refer to applicable national standards and regulations in the selection and use of person protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and specific operational processes.		
Eye/face protection	Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the standards in accordance with EN166, ANSI Z87.1 or international equivalent.).		
Hand protection	Impervious disposable gloves (e.g. Nitrile, etc.) (double recommended) if skin contact with drug product is possible and for bulk processing operations. (Protective gloves must meet the standards in accordance with EN374, ASTM F1001 or international equivalent.).		
Skin and body protection	Impervious disposable protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations. (Protective clothing must meet the standards in accordance with EN13982, ANSI 103 or international equivalent.).		
Respiratory protection	Under normal conditions of use, 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 (e.g. particulate respirator with a full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)		

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#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Physical state Color Odor Odor threshold Molecular formula Molecular weight	Lyophilized powder White to off-white No information available. No information available Mixture Mixture
Property_	Values
pH	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	
Flash point	No information available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Particle characteristics	No information evaluates
Particle Size	No information available
Particle Size Distribution	No information available No information available
Explosive properties	

# 9.2. Other information

No information available

**9.2.1. Information with regard to physical hazard classes** No information available

### 9.2.2. Other safety characteristics

No information available

# Section 10: STABILITY AND REACTIVITY

10.1. Reactivity Reactivity 10.2. Chemical stability

No data available.

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Stability	Stable under normal conditions.	
Explosion data		
Sensitivity to Mechanical Impact		
Sensitivity to Static Discharge	No data available.	
<b>10.3. Possibility of hazardous reactions</b> <b>Possibility of hazardous reactions</b> No information available.		

10.4. Conditions to avoid Conditions to avoid Fine particles (such as dust and mists) may fuel fires/explosions.

10.5. Incompatible materials Incompatible materials

As a precautionary measure, keep away from strong oxidizers.

**10.6.** Hazardous decomposition products Hazardous decomposition products No data available.

# Section 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

General Information:	The information included in this section describes the potential hazards of the individual ingredients
Short term Long Term:	May be absorbed through the skin and cause systemic effects. Repeat-dose studies in animals have shown a potential to cause adverse effects on reproductive system and blood and blood forming organs Animal studies have shown a potential to cause adverse effects on the fetus.
Known Clinical Effects:	Adverse effects associated with therapeutic use include decreased blood cell count, nausea, vomiting, swelling, skin rash, liver enzyme changes, flu-like syndrome.
Acute toxicity	Classification is based on mixture calculation methods based on component data
Serious eye damage/eye irritation	Classification is based on mixture calculation methods based on component data.
Skin corrosion/irritation	Classification is based on mixture calculation methods based on component data.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Reproductive toxicity	Classification is based on mixture calculation methods based on component data.
Germ cell mutagenicity Carcinogenicity	Classification is based on mixture calculation methods based on component data. Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

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

Gemcitabine hydrochloride Mouse Oral Minimum Lethal Dose 333 mg/kg Rat Oral LD50 > 500 mg/kg Rabbit Dermal LD50 > 1000 mg/kg Mannitol Rat Oral LD 50 13500 mg/kg Mouse Oral LD 50 22 g/kg

# Sodium hydroxide

Mouse IP LD50 40 mg/kg			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Mannitol	= 13500 mg/kg (Rat)	-	-
+ Hydrochloric Acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat)1 h

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#### **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)

Gemcitabine hydrochlorideSkin irritationRabbitIrritantEye irritationRabbitIrritant+ Hydrochloric AcidSkin irritationSevereEye irritationSevereSevereSodium hydroxideSevereSevereSkin IrritationRabbitSevere

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

Gemcitabine hydrochloride

6 Month(s) Dog No route specified 0.04 mg/kg/day NOAEL Blood, Erythroid cells, Lymphoid tissue, Immune system 6 Month(s) Mouse No route specified 0.006 mg/kg/day LOAEL Erythroid cells, Male reproductive system, Spleen

#### <u>Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))</u> Gemcitabine hydrochloride

Reproductive & Fertility Mouse Intraperitoneal 0.05 mg/kg/day NOAEL Fertility Fertility and Embryonic Development Mouse Intravenous 0.25 mg/kg/day LOAEL Fetotoxicity, Embryotoxicity, Maternal Toxicity

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

Gemcitabine hydrochlorideIn VivoMicronucleusMousePositiveIn VitroMammalian Cell MutagenicityMouse LymphomaPositiveBacterial Mutagenicity (Ames)Salmonella , E. coliNegativeIn VivoSister Chromatid ExchangeNegativeIn VitroChromosome AberrationNegative+ Hydrochloric AcidBacterial Mutagenicity (Ames)SalmonellaNegativeIn VivoMicronucleusRatNegative

Carcinogenicity	None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.
+ Hydrochloric Acid	
IARC	Group 3 (Not Classifiable)

# 11.2. Information on other hazards11.2.1. Endocrine disrupting propertiesEndocrine disrupting propertiesNo information available.

11.2.2. Other information Other adverse effects

No information available.

# Section 12: ECOLOGICAL INFORMATION

Environmental Overview:

Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.

12.1. Toxicity

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

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Gemcitabine hydrochlorideOncorhynchus mykiss (Rainbow Trout) LC50 96 hours > 1043 mg/LPimephales promelas (Fathead Minnow) LC50 96 > 1014 mg/LDaphnia Magna (Water Flea) EC50 48 hours > 999 mg/LSelenastrum capricornutum (Green Alga) EC50 5.4 mg/LBacterial Inhibition: (Inoculum, Method, End Point, Result)Gemcitabine hydrochlorideNostoc sp. (Freshwater Cyanobacteria) MIC 800 mg/LAspergillus niger (Fungus) MIC > 1000 mg/L12.2. Persistence and degradability		
Persistence and degradability No information available.		
12.3. Bioaccumulative potential   Bioaccumulation No information available.		
12.4. Mobility in soil		

Mobility in soil

No information available.

# 12.5. Results of PBT and vPvB assessment

## PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Sodium hydroxide	The substance is not PBT / vPvB PBT assessment does
	not apply
+ Hydrochloric Acid	The substance is not PBT / vPvB PBT assessment does
	not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

# 12.7. Other adverse effects

No information available.

# Section 13: DISPOSAL CONSIDERATIONS

### 13.1. 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 wastewater 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.

# Section 14: TRANSPORT INFORMATION

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

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

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental Hazard(s):	Not applicable
Special precautions for user:	Not applicable

# Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Gemcitabine hydrochloride	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
EINECS	Not Listed
Sodium acetate trihydrate	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
EINECS	Not Listed
AICS	Present
Sodium hydroxide	
CERCLA/SARA Section 313 de minimus %	Not Listed
Hazardous Substances RQs	1000 lb
California Proposition 65	Not Listed
TSCA	Present
EINECS	215-185-5
AICS	Present
Standard for Uniform Scheduling of Medicines and	Schedule 5
Poisons (SUSMP)	Schedule 6
Mannitol CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
TSCA	Present
EINECS	200-711-8
AICS	Present
+ Hydrochloric Acid	riccont
CERCLA/SARA Section 313 de minimus %	1.0 %
Hazardous Substances RQs	5000 lb
California Proposition 65	Not Listed
TSCA	Present
EINECS	231-595-7
AICS	Present
Standard for Uniform Scheduling of Medicines and	Schedule 5
Poisons (SUSMP)	Schedule 6

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This

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#### product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Sodium hydroxide - 1310-73-2	Use restricted. See item 75.	
+ Hydrochloric Acid - 7647-01-0	Use restricted. See item 75.	

### Persistent Organic Pollutants

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
+ Hydrochloric Acid - 7647-01-0	25	250

Chemical name	EU - Biocides
+ Hydrochloric Acid - 7647-01-0	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

# Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

Acute toxicity, oral-Cat.4; Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation Germ cell mutagenicity-Cat.1B; H340 - May cause genetic defects Reproductive toxicity-Cat.1B; H360FD - May damage fertility. May damage the unborn child Serious eye damage/eye irritation-Cat. 2; H319 - Causes serious eye irritation Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage Acute toxicity, inhalation-Cat.3; H331 - Toxic if inhaled

Data Sources:	Publicly available toxicity information. Safety data sheets for individual ingredients.
Reason for revision	Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 8 - Exposure Controls / Personal Protection. Added Pfizer OEL (Section 8). Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information.
Revision date	04-Aug-2023
Prepared By	Pfizer Global Environment, Health, and Safety

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