

Revision date 19-Dec-2022

Version 2

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

1.1. Product identifier

Product Name	Mitoxantrone Injection (Hospira, Inc.)
Product Code(s) Trade Name:	PZ03224
Chemical Family:	Mixture

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

Recommended Use

Pharmaceutical product used as Antineoplastic agent

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 Hospira UK Limited Horizon Honey Lane Hurley Maidenhead, SL6 6RJ United Kingdom

E-mail address

pfizer-MSDS@pfizer.com

1.4. Emergency telephone number

Emergency Telephone

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

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.

Germ cell mutagenicity Carcinogenicity Reproductive toxicity	Category 1B - (H340) Category 1B - (H350) Category 1B - (H360D)
2.2. Label elements Signal word	Danger
Hazard statements	H340 - May cause genetic defects H350 - May cause cancer H360D - May damage the unborn child
Precautionary Statements	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves and protective clothing P308 + P313 - IF exposed or concerned: Get medical attention/advice P405 - Store locked up P501 - Dispose of contents/container in accordance with all local and national regulations

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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 .

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Hazardous							
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 CHLORIDE (CAS #: 7647-14-5)	*	-	231-598-3	Not classified as hazardous	Not Listed	No data available	No data available
Mitoxantrone Hydrochloride (CAS #: 70476-82-3)	0.2		274-619-1	Acute Tox. 4 (H312) Acute Tox. 4 (H302) Repr. 1B (H360D) Muta. 1B (H340) Carc. 1B (H350)	Not Listed	No data available	No data available
+ ACETIC ACID (CAS #: 64-19-7)	**		200-580-7	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1A :: C>=90% Skin Corr. 1B :: 25%<=C<90% Skin Irrit. 2 :: 10%<=C<25%	No data available	No data available
NonHazardous							
Chemical name	Weight-%	REACH Registration Number	EC No	Classification according to Regulation (EC) No.	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)

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				1272/2008 [CLP]			
Water (CAS #: 7732-18-5)	*	-	231-791-2	Not classified as hazardous	Not Listed	No data available	No data available
Sodium Acetate (CAS #: 127-09-3)	*		204-823-8	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	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
SODIUM CHLORIDE 7647-14-5	3000	10000	No data available	No data available	No data available
Sodium Acetate 127-09-3	3530	10000	7.5	No data available	No data available
Mitoxantrone Hydrochloride 70476-82-3	682	125	No data available	No data available	No data available
+ ACETIC ACID 64-19-7	3310	1060	11.4	No data available	No data available

Additional information

* Proprietary ** to adjust pH

+ Substance with a Union workplace exposure limit

as required

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 completeness.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

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

Identification and/or Section 11 - Toxicological Information.

effects

PZ03224

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	None.			
Section 5: FIRE-FIGHTING M	EASURES			
5.1. Extinguishing media				
Suitable Extinguishing Media	As for primary cause of fire.			
5.2. Special hazards arising from the	e substance or mixture			
Specific hazards arising from the chemical	Not applicable.			
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 REL	EASE MEASURES			
6.1. Personal precautions, protectiv	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				
Methods for containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal. Clean spill area thoroughly.			
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. 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. 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.

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STEL: 50 mg/m ³			
		Italy	
			Ph

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Latvia	10 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm 10 ppm
	25 mg/m ³ STEL: 50 mg/m ³ STEL: 20 ppm
Netherlands	25 mg/m ³ STEL: 50 mg/m ³
Poland	STEL: 50 mg/m ³ 25 mg/m ³
Romania	10 ppm 25 mg/m ³ STEL: 20 ppm
Russia	STEL: 50 mg/m³ MAC: 5 mg/m³ Skin
Slovakia	10 ppm
Spain	25 mg/m ³ 10 ppm 25 mg/m ³ STEL: 20 ppm
Switzerland	STEL: 50 mg/m ³ 10 ppm 25 mg/m ³ STEL: 20 ppm STEL: 50 mg/m ³
OSHA PEL	10 ppm 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³
United Kingdom	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 50 mg/m ³
Pfizer Occupational Exposure Band	
(OEB) Statement:	The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.
8.2. 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.
Environmental exposure controls	No information available.
Personal protective equipment	Refer to applicable national standards and regulations in the selection and use of personal 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.).

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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.)

General hygiene considerations

ns 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	Sterile solution Dark blue No information available. No information available Mixture
Molecular weight	Mixture
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit:	Values 3.0-4.5 No data available No information available No data available No data available No data available
Lower flammability limit:	No data available
Vapor pressure Vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Particle characteristics Particle Size Particle Size Particle Size Distribution Explosive properties	No data available No information available No information available

9.2. Other information

No information available

9.2.1. Information with regard to physical hazard classes

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No information available

9.2.2. Other safety characteristics

No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity	
Reactivity	No data available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to Mechanical Impac	t No data available.
Sensitivity to Static Discharge	No data available.
10.3. Possibility of hazardous react	ions
Possibility of hazardous reactions	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.

<u>10.6. Hazardous decomposition products</u> 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	May cause skin irritation, May cause eye irritation (based on components).
Long Term:	Animal studies indicate that this material may cause adverse effects on the the developing fetus.
Known Clinical Effects:	Adverse effects most commonly reported in clinical use include hematological effects, kidney effects, gastrointestinal disturbances, effects on cardiovascular system, liver effects and skin reaction.
Acute toxicity	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
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	Classification is based on mixture calculation methods based on component data.
Carcinogenicity	Classification is based on mixture calculation methods based on component data.
Aspiration hazard	Based on available data, the classification criteria are not met.

Acute Toxicity: (Species, Route, End Point, Dose) SODIUM CHLORIDE Pat Sub-tenon injection (ava) 1 C50/1br > 42 g/m³

Rat Sub-tenon injection (eye) LC50/1hr > 42 g/m³ Rat Oral LD 50 3 g/kg Mouse Oral LD 50 4 g/kg Rabbit Dermal LD 50 > 10 g/kg **Sodium Acetate** Rat Oral LD 50 3500 mg/kg Mouse Oral LD 50 4960 mg/kg

Mitoxantrone Hydrochloride

Rat Oral LD50 682 mg/kg Mouse Oral LD50 502 mg/kg Rat Dermal LD50 1640 mg/kg Rabbit Dermal LD50 125 mg/kg Rat Intravenous LD50 4.8 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
SODIUM CHLORIDE	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
Sodium Acetate	= 3530 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 30 g/m³ (Rat)1 h
Mitoxantrone Hydrochloride	= 682 mg/kg (Rat)	= 125 mg/kg (Rabbit)	-
+ ACETIC ACID	= 3310 mg/kg(Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat)4 h

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) SODIUM CHLORIDE Skin irritation, Rabbit Mild

Skin irritation Rabbit Mild Eye irritation Rabbit Mild

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

Reproductive & Fertility Rat No route specified 0.25 mg/kg LOAEL Fetotoxicity Reproductive & Fertility Rabbit Intravenous 0.5 mg/kg NOAEL Negative Embryo / Fetal Development Rabbit No route specified 0.2 mg/kg/day NOAEL Teratogenic Embryo / Fetal Development Rat No route specified 6 mg/kg/day NOAEL No effects at maximum dose

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

Mitoxantrone HydrochlorideIn VivoCytogeneticsRatPositiveUnscheduled DNA SynthesisRat HepatocytePositiveSister Chromatid ExchangeChinese Hamster Ovary (CHO) cellsPositiveIn VitroChromosome AberrationHamsterPositiveSomatic Mutation & Recombination Test (SMART)DrosophilaPositive

Carcinogenicity	See below
Mitoxantrone Hydrochloride	
IARC	Group 2B (Possibly Carcinogenic to Humans)

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:

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

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thoroughly investigated.

12.1. Toxicity

12.2. Persistence and degradability	_
Persistence and degradability	No information available.
12.3. Bioaccumulative potential	No information available.
<u>12.4. Mobility in soil</u>	

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

Chemical name	PBT and vPvB assessment
SODIUM CHLORIDE	The substance is not PBT / vPvB PBT assessment does
	not apply
Sodium Acetate	The substance is not PBT / vPvB PBT assessment does
	not apply
+ ACETIC 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.

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

UN number: Not applicable

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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:

le Not applicable

Section 15: REGULATORY INFORMATION

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

Water	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
TSCA	Present
EINECS	231-791-2
AICS	Present
SODIUM CHLORIDE	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
TSCA	Present
EINECS	231-598-3
AICS	Present
Sodium Acetate	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	Not Listed
TSCA	Present
EINECS	204-823-8
AICS	Present
Mitoxantrone Hydrochloride	
CERCLA/SARA Section 313 de minimus %	Not Listed
California Proposition 65	carcinogen 1/23/2015
	developmental toxicity 7/1/1990
EINECS	274-619-1
+ ACETIC ACID	
CERCLA/SARA Section 313 de minimus %	Not Listed
Hazardous Substances RQs	5000 lb
California Proposition 65	Not Listed
TSCA	Present
EINECS	200-580-7
AICS	Present
Standard for Uniform Scheduling of Medicines and	Schedule 5
Poisons (SUSMP)	Schedule 6
	Schedule 2

Chemical name	French RG number	Title
SODIUM CHLORIDE	RG 78	-
7647-14-5		

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

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
+ ACETIC ACID - 64-19-7	Use restricted. See item 75.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Plant protection products directive (91/414/EEC)
SODIUM CHLORIDE - 7647-14-5	Plant protection agent
+ ACETIC ACID - 64-19-7	Plant protection agent

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; H302 - Harmful if swallowed Acute toxicity, dermal-Cat.4; H312 - Harmful in contact with skin Germ cell mutagenicity-Cat.1B; H340 - May cause genetic defects Reproductive toxicity-Cat.1B; H360D - May damage the unborn child Carcinogenicity-Cat.1B; H350 - May cause cancer Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage Flammable liquids-Cat.3; H226 - Flammable liquid and vapor

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 5 - Fire Fighting Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information.
Revision date	19-Dec-2022
Prepared By	Pfizer Global Environment, Health, and Safety

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