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

1.1. Product identifier

Product Name TPN Electrolytes (Hospira, Inc.)

Product Code(s) PZ03421 **Trade Name:** Not applicable **Chemical Family:** Not determined

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

Recommended Use Pharmaceutical product

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

Pfizer Ireland Pharmaceuticals

OSG Building

Ringaskiddy, Co. Cork.

Ireland

+353 21 4378701

pfizer-MSDS@pfizer.com E-mail address

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: This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

OSHA Classification

Hazards not otherwise classified (HNOC)

Not applicable

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

Not applicable

2.2. Label elements

Not classified Signal word

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Hazard statements Not classified in accordance with international standards for workplace safety.

2.3. Other hazards

Other hazards An Occupational Exposure Value has been established for one or more of the ingredients

(see Section 8).

PBT & vPvBThe product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Note: This document has been prepared in accordance with standards for workplace safety, which

EC No (EU Classification

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.

Specific

M-Factor

M-Factor

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

REACH

3.1 Substances

Chemical name

Substances Not applicable

Weight-%

3.2 Mixtures

Hazardous

Onemical name	vveignt-76	registration number	Index No)	according to Regulation (EC) No. 1272/2008 [CLP]	concentration limit (SCL)	W-I actor	(long-term)
CALCIUM CHLORIDE (CAS #: 10043-52-4)	1.7		233-140-8 (017-013-00-2)	Eye Irrit. 2 (H319)	Not classified	No data available	No data available
Sodium hydroxide (CAS #: 1310-73-2)	**	-	215-185-5 (011-002-00-6)	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 (017-002-00-2) (017-002-01-X)	Press. Gas Skin Corr. 1A (H314) Acute Tox. 3 (H331)	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
NonHazardous	144 : 140:	55401		01 11 11			
Chemical name	Weight-%	REACH registration	EC No (EU Index No)	Classification according to	Specific concentration	M-Factor	M-Factor (long-term)

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		number		Regulation (EC) No. 1272/2008 [CLP]	limit (SCL)		
Water (CAS #: 7732-18-5)	*	-	231-791-2	Not classified	Not classified	No data available	No data available
Sodium Acetate (CAS #: 127-09-3)	12.1		204-823-8	Not classified	Not classified	No data available	No data available
POTASSIUM CHLORIDE (CAS #: 7447-40-7)	7.5		231-211-8	Acute Tox 5 (H303)	Not classified	No data available	No data available
Magnesium chloride (CAS #: 7786-30-3)	2.5		232-094-6	Not classified	Not classified	No data available	No data available
SODIUM CHLORIDE (CAS #: 7647-14-5)	1.6	-	231-598-3	Not classified	Not classified	No data available	No data available

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

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	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 Acetate 127-09-3	3530	10000	5.6	No data available	No data available
POTASSIUM CHLORIDE 7447-40-7	3020	No data available	No data available	No data available	No data available
Magnesium chloride 7786-30-3	2800	2000	No data available	No data available	No data available
CALCIUM CHLORIDE 10043-52-4	1000	5000	No data available	No data available	No data available
SODIUM CHLORIDE 7647-14-5	3550	10000	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
+ Hydrochloric Acid 7647-01-0	238	5010	No data available	No data available	563.3022

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Additional information

- + Substance with a Union workplace exposure limit
- * Proprietary
- ** to adjust pH

Non-hazardous ingredients provided for completeness. 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.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

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Inhalation Remove to fresh air. Seek immediate medical attention/advice.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

physician.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

Ingestion Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occur, obtain medical

attention.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

No data available

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

Note to physicians None

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Not applicable.

Hazardous combustion products Formation of toxic gases is possible during heating or fire. May include oxides of sodium

and products of chlorine

Explosion data

Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective 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 Prevent further leakage or spillage if safe to do so.

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Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean Methods for cleaning up

spill area thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or 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

Store as directed by product packaging. **Storage Conditions**

7.3. Specific end use(s)

Specific use(s) Pharmaceutical drug product.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

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

Sodium Acetate

Russia MAC: 10 mg/m³

POTASSIUM CHLORIDE

Bulgaria TWA: 5.0 mg/m³; Latvia TWA: 5 mg/m³; MAC: 5 mg/m³ Russia

CALCIUM CHLORIDE

Czech Republic 5 mg/m³ Ceiling: 4 mg/m³ Latvia TWA: 2 mg/m³; MAC: 2 mg/m³ Russia

Skin

SODIUM CHLORIDE

TWA: 5 mg/m³; Latvia Russia MAC: 5 mg/m³

Sodium hydroxide

ACGIH OEL (Ceiling) 2 mg/m³ Ceiling: 2 mg/m³ **ACGIH TLV**

Austria TWA-TMW: 2 mg/m³; inhalable fraction

STEL-KZGW: 4 mg/m³ (8 X 5 min); inhalable fraction

Bulgaria TWA: 2.0 mg/m³; alkaline aerosols

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Czech Republic	1 mg/m³
0_00	Ceiling: 2 mg/m ³
Denmark	Ceiling: 2 mg/m ³ ;
Estonia	TWA: 1 mg/m³;
	STEL: 2 mg/m³;
Finland	Ceiling: 2 mg/m³;
France	2 mg/m ³
Hungary	TWA-AK: 1 mg/m ³ ;
	STEL-CK: 2 mg/m ³ ;
Ireland	STEL: 2 mg/m ³ ;
Ceiling Limit Value	2 mg/m ³
Latvia	TWA: 0.5 mg/m ³ ;
Poland	TWA-NDS: 0.5 mg/m³;
.	STEL-NDSCh: 1 mg/m³;
Romania	TWA: 1 mg/m³;
Slovakia	STEL: 3 mg/m³; TWA: 2 mg/m³;
Spain	STEL (VLA-EC): 2 mg/m³;
Switzerland	TWA-MAK: 2 mg/m³; inhalable dust
Owitzeriand	STEL-KZGW: 2 mg/m³; inhalable dust
OSHA PEL	TWA: 2 mg/m ³
00	(vacated) Ceiling: 2 mg/m ³
United Kingdom	STEL: 2 mg/m ³ ;
+ Hydrochloric Acid	,
ACGIH OEL (Ceiling	2 ppm
ACGIH TLV	Ceiling: 2 ppm
Austria	TWA-TMW: 5 ppm;
	TWA-TMW: 8 mg/m³;
	STEL-KZGW: 10 ppm (8 X 5 min);
	STEL-KZGW: 15 mg/m ³ (8 X 5 min);
Bulgaria	TWA: 5 ppm;
	TWA: 8.0 mg/m ³ ;
	STEL: 10 ppm;
Czach Danublia	STEL: 15.0 mg/m³;
Czech Republic	8 mg/m³ Ceiling: 15 mg/m³
Denmark	STEL: 5 ppm;
Definark	STEL: 3 ppm; STEL: 8 mg/m³;
Estonia	TWA: 5 ppm;
Lotoriid	TWA: 8 mg/m³;
	STEL: 10 ppm;
	STEL: 15 mg/m ³ ;
European Union	TWA: 5 ppm;
•	TWA: 8 mg/m ³ ;
	STEL: 10 ppm;
	STEL: 15 mg/m³;
Finland	STEL: 5 ppm;
	STEL: 7.6 mg/m ³ ;
Germany DFG	TWA-MAK: 2 ppm; I(2);
	TWA-MAK: 3.0 mg/m ³ ; I(2);
	Peak: 4 ppm;
Cormor: TDCC	Peak: 6 mg/m³;
Germany TRGS	TWA-AGW; 2 ppm (exposure factor 2);
∐ungan/	TWA-AGW; 3 mg/m³ (exposure factor 2);

TWA-AK: 8 mg/m³; TWA-AK: 5 ppm; STEL-CK: 165 mg/m³; STEL-CK: 10 ppm;

Hungary

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TWA: 8 mg/m ³ ;
TWA: 5 ppm;
STEL: 10 ppm;

 $\begin{array}{ccc} & & \text{STEL: 15 mg/m}^3; \\ \text{Italy MDLPS} & & \text{TWA: 5 ppm;} \\ & & & \text{TWA: 8 mg/m}^3; \\ \end{array}$

STEL: 10 ppm; STEL: 15 mg/m³;

Ceiling Limit Value 2 ppm 3.0 mg/m³

Latvia

TWA: 5 ppm;

TWA: 8 mg/m³;

STEL: 10 ppm;

STEL: 10 ppm, STEL: 15 mg/m³; TWA: 5 ppm; TWA: 8 mg/m³; STEL: 10 ppm;

STEL-NDSCh: 10 mg/m³; Romania TWA: 5 ppm;

> TWA: 8 mg/m³; STEL: 10 ppm; STEL: 15 mg/m³; MAC: 5 mg/m³

Russia MAC: 5 mg/m³
Slovakia TWA: 5 ppm;
TWA: 8.0 mg/m³;
Ceiling: 15 mg/m³;

TWA-(VLA-ED): 5 ppm; TWA-(VLA-ED): 7.6 mg/m³; STEL (VLA-EC): 10 ppm; STEL (VLA-EC): 15 mg/m³;

Switzerland

TWA-MAK: 2 ppm;

TWA-MAK: 3 mg/m³;

STEL-KZGW: 4 ppm; STEL-KZGW: 6 mg/m³;

U.S. - OSHA - Final PELs - Ceiling Limits

5 ppm
7 mg/m³
OSHA PEL

Ceiling: 5 px

Ceiling: 5 ppm Ceiling: 7 mg/m³ (vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³

United Kingdom TWA: 1 ppm; gas and aerosol mist

TWA: 2 mg/m³; gas and aerosol mist STEL: 5 ppm; gas and aerosol mist STEL: 8 mg/m³; gas and aerosol mist

Pfizer Occupational Exposure Band

(OEB) Statement:

Netherlands

Spain

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.

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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.

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.

Eve/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 gloves (e.g. Nitrile, etc.) are 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 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 half mask, P3 filter).

(Respirators must meet the standards in accordance with EN140, EN143, ASTM F2704-10 $\,$

or international equivalent.).

Thermal hazards No information available.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid

Color Clear, colorless

Odor No information available.
Odor threshold No information available

<u>Property</u> <u>Values</u>

Melting point / freezing point

Boiling point or initial boiling point and boiling range
Flammability (solid, gas)

No data available
No data available

Lower and upper explosion limit/flammability limit

Lower explosion limit
Upper explosion limit
No data available
No data available
No data available
Autoignition temperature
No data available

Decomposition temperature

SADT (°C) No data available

6.0-7.5

pH (as aqueous solution) No data available

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No data available Kinematic viscosity Dynamic viscosity No data available

No data available Soluble Solubility

No data available Vapor pressure Density and/or relative density No data available **Bulk density** No data available **Liquid Density** No data available Vapor density No data available

Particle characteristics

Particle Size No information available **Particle Size Distribution** No information available

9.2. Other information

Molecular formula Mixture Mixture Molecular weight

9.2.1. Information with regard to physical hazard classes

Oxidizing properties None

9.2.2. Other safety characteristics

No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Incompatible materials None known.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition products include oxides of nitrogen, carbon monoxide, carbon

dioxide, and halogen containing gases.

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 eye irritation (based on components)

Known Clinical Effects: The most common adverse effects seen during clinical use of this drug include changes in

electrolytes

Acute toxicity
Serious eye damage/eye irritation
Skin corrosion/irritation
Respiratory or skin sensitization
STOT - single exposure
STOT - repeated exposure
Reproductive toxicity
Germ cell mutagenicity
Carcinogenicity
Aspiration hazard

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

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

Sodium Acetate

Rat Oral LD 50 3500 mg/kg Mouse Oral LD 50 4960 mg/kg

POTASSIUM CHLORIDE

Rat Oral LD50 3020 mg/kg

SODIUM CHLORIDE

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 hydroxide

Mouse IP LD50 40 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Sodium Acetate	= 3530 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.6 mg/L (Rat)4 h
POTASSIUM CHLORIDE	= 2600 mg/kg (Rat)	-	-
Magnesium chloride	= 2800 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
CALCIUM CHLORIDE	= 1000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
SODIUM CHLORIDE	= 3550 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat) 1 h
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
+ Hydrochloric Acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 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)

POTASSIUM CHLORIDE

Eye Irritation Rabbit Mild

SODIUM CHLORIDE

Skin irritation Rabbit Mild Eye irritation Rabbit Mild

+ Hydrochloric Acid Skin irritation Severe

Eye irritation Severe

Sodium hydroxide

Eye Irritation Rabbit Severe

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Skin Irritation Rabbit Severe

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

+ Hydrochloric Acid

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

None of the components of this formulation are listed as a carcinogen by IARC, NTP or Carcinogenicity

OSHA.

+ Hydrochloric Acid

IARC Group 3

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

Section 12: ECOLOGICAL INFORMATION

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

environment should be avoided.

12.1. Toxicity

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

POTASSIUM CHLORIDE

Gambusia affinis (Mosquitofish) LC50 96 hours 920 mg/L

Lepomis macrochirus (Bluegill Sunfish) LC50 96 hours 2010 mg/L

Daphnia Magna (Water Flea) EC50 48 hours 825 mg/L

Scenedesmus subspicatus (Green Alga) EC50 72 hours 2500 mg/L

12.2. 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 Acetate	Not PBT/vPvB PBT assessment does not apply
POTASSIUM CHLORIDE	Not PBT/vPvB PBT assessment does not apply
Magnesium chloride	Not PBT/vPvB PBT assessment does not apply
CALCIUM CHLORIDE	Not PBT/vPvB PBT assessment does not apply
SODIUM CHLORIDE	Not PBT/vPvB PBT assessment does not apply
+ Hydrochloric Acid	Not PBT/vPvB PBT assessment does not apply
Sodium hydroxide	Not PBT/vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM propertiesBased on available data, the classification criteria are not met.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

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:
UN proper shipping name:
Not applicable
Transport hazard class(es):
Packing group:
Not applicable
Not applicable
Not applicable
Not applicable
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 % California Proposition 65 TSCA EINECS AICS Sodium Acetate	Not Listed Not Listed Present 231-791-2 Present
CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS POTASSIUM CHLORIDE	Not Listed Not Listed Present 204-823-8 Present
CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)	Not Listed Not Listed Present 231-211-8 Present Schedule 4
Magnesium chloride CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS CALCIUM CHLORIDE	Not Listed Not Listed Present 232-094-6 Present
CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS SODIUM CHLORIDE	Not Listed Not Listed Present 233-140-8 Present
CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS	Not Listed Not Listed Present 231-598-3 Present
Sodium hydroxide CERCLA/SARA Section 313 de minimus % Hazardous Substances RQs California Proposition 65 TSCA EINECS AICS Standard for Uniform Scheduling of Medicines and Poisons (SUSMP) + Hydrochloric Acid	Not Listed 1000 lb Not Listed Present 215-185-5 Present Schedule 5 Schedule 6
CERCLA/SARA Section 313 de minimus % Hazardous Substances RQs California Proposition 65 TSCA EINECS AICS Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)	1.0 % 5000 lb Not Listed Present 231-595-7 Present Schedule 5 Schedule 6

<u>France</u>

National regulations

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Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
POTASSIUM CHLORIDE	RG 67
7447-40-7	
SODIUM CHLORIDE	RG 78
7647-14-5	

Germany

Chemical Prohibition Ordinance (ChemVerbotsV)

Not applicable

TRGS 905 Not applicable

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018

Storage of Hazardous Material

WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20

Major Accidents Ordinance SR 814.012

Not applicable

Not applicable

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
CALCIUM CHLORIDE 10043-52-4	75	-
Sodium hydroxide 1310-73-2	75	-
+ Hydrochloric Acid 7647-01-0	75	-

Persistent Organic Pollutants

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

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

Ozone-depleting substances (ODS) Regulation (EU) 2024/590 Not applicable.

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
SODIUM CHLORIDE 7647-14-5	Plant protection agent

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Sodium Acetate	Simplified procedure - Category 1
127-09-3	
SODIUM CHLORIDE	Product-type 1: Human hygiene

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7647.44.5	

+ Hydrochloric Acid Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals

Explosives Precursors Marketing and Use (2019/1148)

Not applicable

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

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 any hazard and/or precautionary statements referred to under Sections 2-15

H314 - Causes severe skin burns and eye damage. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.

Reason for revision Updated Section 1 - Identification of the Substance/Preparation and the

Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 15 - Regulatory Information.

Revision date 18-Jun-2025

Prepared By Pfizer Global Environment, Health, and Safety

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