

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

#### 1.1. Product identifier

Product Name Povidone-Iodine Cutaneous Solution (Half Strength)

Product Code(s) PZ00715

Synonyms Half Strength Povidone-Iodine Solution 5% w/v Cutaneous Solution; Half Strength

Povidone-lodine

Trade Name: Half Strength Povidone-Iodine Solution 5% w/v Cutaneous Solution

Chemical Family: Mixture

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

Recommended Use Pharmaceutical product used as disinfectant antiseptic

# 1.3. Details of the supplier of the safety data sheet

Pfizer Inc Pfizer Ireland Pharmaceuticals

66 Hudson Boulevard East OSG Building

New York, New York 10001 Ringaskiddy, Co. Cork.

1-800-879-3477 Ireland

+353 21 4378701

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.

Hazardous to the aquatic environment - acute Category 2 - (H401)

#### **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

Hazard statements H401 - Toxic to aquatic life

Precautionary Statements - EU (§28, P273 - Avoid release to the environment

1272/2008)

Supplemental Hazard Compound, not fully tested, additional hazards may exist.

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2.3. Other hazards

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

(see Section 8).

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

**Endocrine Disruptor Information** 

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Nonoxynol-9	Endocrine disrupting properties	-

Chemical name	Endocrine disrupting properties in accordance with the
	criteria set out in Commission Delegated Regulation (EU)
	2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Nonoxynol-9	Endocrine disrupting properties

Note:

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 registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Povidone-lodine (CAS #: 25655-41-8)	5		Not Listed	Acute Tox.4 (H312) Acute Tox.4 (H332) Aquatic Acute 1 (H400)	Not classified	1	No data available
Citric acid	*		201-069-1	Eye Irrit. 2A	Not classified	No data	No data
(CAS #: 77-92-9)			(607-750-00-3)	(H319)SE 3 (H335)		available	available
NonHazardous							
Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Water (CAS #: 7732-18-5)	*	-	231-791-2	Not classified	Not classified	No data available	No data available

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Sodium Phosphate 231-558-5 Not classified Not classified No data No data (CAS #: 7632-05-5) available available Polyethylene glycol Not Listed Not classified Not classified No data No data available (CAS #: available 25322-68-3) (604-100-00-0) Aquatic Acute Nonoxynol-9 Not classified 10 (CAS #: 1 (H400) 26027-38-3) Aquatic

Chronic 1 (H410)

#### 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	89838.9	No data available	No data available	No data available	No data available
7732-18-5					
Povidone-lodine	8000	No data available	No data available	No data available	No data available
25655-41-8					
Citric acid	5400	>2000	No data available	No data available	No data available
77-92-9					
Polyethylene glycol	22000	20000	No data available	No data available	No data available
25322-68-3					
Nonoxynol-9	1300	1908	No data available	No data available	No data available
26027-38-3					

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

Chemical name	CAS No.	SVHC candidates
Nonoxynol-9	26027-38-3	X

# **Additional information**

- Not Assigned
- \* Proprietary

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

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

If symptoms persist, call a physician. Eye contact

Remove contaminated clothing and wash exposed area with soap and water. Obtain Skin contact

medical assistance if irritation occurs.

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.

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

Most important symptoms and

No data available

effects

#### 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

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

chemical **Hazardous combustion products** 

Formation of toxic gases is possible during heating or fire. May include oxides of carbon

nitrogen and products of iodine

**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

Personnel involved in clean-up should wear appropriate personal protective equipment (see Personal precautions

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.

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

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# 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

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

7.3. Specific end use(s)

Specific use(s) Pharmaceutical 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.

Citric acid

Czech Republic 4 mg/m<sup>3</sup>

Germany DFG TWA-MAK: 2 mg/m<sup>3</sup>; I(2);inhalable fraction

Peak: 4 mg/m<sup>3</sup>; respirable fraction

Germany TRGS TWA-AGW; 2 mg/m³ (exposure factor 2); inhalable fraction

Russia MAC: 1 mg/m<sup>3</sup>

TWA-MAK: 2 mg/m3; inhalable dust Switzerland

STEL-KZGW: 4 mg/m3; inhalable dust

Polyethylene glycol

TWA-TMW: 1000 mg/m³; inhalable fraction Austria

STEL-KZGW: 4000 mg/m3 (4 X 15 min); inhalable fraction

TWA: 1000 mg/m3; Denmark STEL: 2000 mg/m3;

Germany DFG TWA-MAK: 250 mg/m<sup>3</sup>; II(2);inhalable fraction

Peak: 500 mg/m<sup>3</sup>; inhalable fraction

**Germany TRGS** TWA-AGW; 200 mg/m<sup>3</sup> (exposure factor 2); inhalable fraction

Russia MAC: 10 mg/m<sup>3</sup> Slovakia TWA: 1000 mg/m<sup>3</sup>; Switzerland TWA-MAK: 500 mg/m<sup>3</sup>;

**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.

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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 air contamination levels below the exposure limits or within the OEB range 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.

**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 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 stateLiquidColorBrownOdorNone.

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
Autoignition temperature
No data available

Autoignition temperature No data available Decomposition temperature

SADT (°C)

No data available

PH

No data available

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pH (as aqueous solution) No data available Kinematic viscosity No data available No data available **Dynamic viscosity** No data available Solubility Vapor pressure No data available 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 Molecular weight Mixture

#### 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 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

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

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** May cause eye irritation (based on components)

Based on available data, the classification criteria are not met. **Acute toxicity** Serious eye damage/eye irritation Based on available data, the classification criteria are not met. 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

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Based on available data, the classification criteria are not met. STOT - single exposure STOT - repeated exposure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity 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)

Povidone-lodine

Rat Oral LD50 > 8000 mg/kg

Citric acid

Mouse Oral LD50 5400 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Povidone-Iodine	> 8 g/kg (Rat)	-	-
Citric acid	= 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-
Polyethylene glycol	= 22 g/kg (Rat)	> 20 g/kg (Rabbit)	-
Nonoxynol-9	= 1300 mg/kg (Rat)	= 1800 μL/kg (Rabbit)	-

**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)

Povidone-lodine

Skin irritation Rabbit Mild

Citric acid

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Polyethylene glycol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

Carcinogenicity

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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

11.2.2. Other information

Other adverse effects No information available.

# Section 12: ECOLOGICAL INFORMATION

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**Environmental Overview:** The environmental characteristics of this mixture have not been fully evaluated. Releases to

the environment should be avoided. The material, Povidone-Iodine, is not expected to

bioconcentrate in the environment.

12.1. Toxicity

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

Povidone-lodine

Daphnia magna (Water Flea) N/A EC50 48 hours 0.315 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
Citric acid	Not PBT/vPvB
Polyethylene glycol	Not PBT/vPvB
Nonoxynol-9	Not PBT/vPvB

#### 12.6. Endocrine disrupting properties

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

Chemical name	Endocrine disrupting properties in accordance with the
	criteria set out in Commission Delegated Regulation (EU)
	2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Nonoxynol-9	Environmental effects

12.7. Other adverse effects

Other adverse effects No information available.

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

# Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

# Waste from residues/unused products

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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:
Transport hazard class(es):
Packing group:
Environmental Hazard(s):
Not applicable
Not applicable
Not applicable

#### Section 15: REGULATORY INFORMATION

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

Not Listed

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CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65 Not Listed
TSCA Present
EINECS 231-791-2
AICS Present

Povidone-Iodine

CERCLA/SARA Section 313 de minimus % Not Listed California Proposition 65 Not Listed TSCA Present EINECS Not Listed AICS Present

Sodium Phosphate
CERCLA/SARA Section 313 de minimus %

California Proposition 65
TSCA
Present
EINECS
AICS
Standard for Uniform Scheduling of Medicines and
Poisons (SUSMP)
Not Listed
Present
231-558-5
Present
Schedule 3
Schedule 4

Citric acid

CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65 Not Listed
TSCA Present
EINECS 201-069-1
AICS Present

Polyethylene glycol

CERCLA/SARA Section 313 de minimus % Not Listed

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**California Proposition 65** Not Listed Present **TSCA EINECS** Not Listed **AICS** Present Standard for Uniform Scheduling of Medicines and Schedule 3 Poisons (SUSMP) Schedule 2

Nonoxynol-9

CERCLA/SARA Section 313 de minimus % 1.0 % Not Listed **California Proposition 65 TSCA** Present Not Listed **EINECS AICS** Present

#### National regulations

#### Germany

**Chemical Prohibition Ordinance (ChemVerbotsV)** 

Not applicable

Not applicable **TRGS 905** 

#### Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable Storage of Hazardous Material Not applicable WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable Major Accidents Ordinance SR 814.012 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) This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Citric acid 77-92-9	75	-
Nonoxynol-9 26027-38-3	•	43

## **Persistent Organic Pollutants**

Not applicable

# **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

and the state of t	
Chemical name	European Export/Import Restrictions per (EC) 649/2012 -
	Annex Number
Nonoxynol-9	I.1
26027-38-3	1.2

#### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

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Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Povidone-lodine	Product-type 2: Disinfectants and algaecides not intended
25655-41-8	for direct application to humans or animals Product-type 3:
	Veterinary hygiene Product-type 4: Food and feed area
	Product-type 22: Embalming and taxidermist fluids
	Product-type 1: Human hygiene
Citric acid	Product-type 2: Disinfectants and algaecides not intended
77-92-9	for direct application to humans or animals Product-type 6:
	Preservatives for products during storage

## 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

H312 - Harmful in contact with skin. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H400 - Very toxic to aquatic life.

**Data Sources:** Publicly available toxicity information.

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

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** 15-Jun-2025

**Prepared By** Pfizer Global Environment, Health, and Safety

Pfizer Inc believes that the information contained in this 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.