

Revision date 22-Apr-2022 Version 4 Page 1/11

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

1.1. Product identifier

Product Name Bicillin C-R

Product Code(s) 00230796

Synonyms Penicillin G benzathine and Penicillin G procaine injectable suspension

Trade Name: Bicillin C-R Chemical Family: Penicillin

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

Recommended Use Pharmaceutical product used as antibiotic agent

1.3. Details of the supplier of the safety data sheet

Pfizer Inc Pfizer Ireland Pharmaceuticals

235 East 42nd Street OSG Building

New York, New York 10017 Ringaskiddy, Co. Cork.

1-800-879-3477 Ireland

+353 21 4378701

1.4. Emergency telephone number

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

E-mail address pfizer-MSDS@pfizer.com

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Respiratory sensitizationCategory 1Skin sensitizationCategory 1

2.2. Label elements

Signal word Danger

Hazard statements H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 - May cause an allergic skin reaction

Precautionary Statements P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - In case of inadequate ventilation wear respiratory protection

P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a

position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or

doctor/physician

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

Product Name Bicillin C-R Revision date 22-Apr-2022

version date 22-Apr-2022 Version 4

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/container in accordance with all local and national regulations

Page 2/11



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

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

- TOLEGI GO GO							
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)
Penicillin G benzathine 41372-02-5	22.5-33.75		Not Listed	Acute Tox. 4 (H302) Resp. Sens. Cat. 1 (H334) Skin Sens. Cat. 1 (H317)	Not Listed	No data available	No data available
Penicillin G procaine 54-35-3	15-30		200-205-7	Resp. Sens.1 (H334) Skin Sens.1 (H317)	Not Listed	No data available	No data available
NonHazardous					,		
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)
Povidone 9003-39-8	*		Not Listed	No data available	Not Listed	No data available	No data available
Lecithin 8002-43-5	*		232-307-2	No data available	Not Listed	No data available	No data available

Product Name Bicillin C-R

Page 3/11 Revision date 22-Apr-2022 Version 4

Methyl-p-hydroxyben zoate 99-76-3	*	202-785-7	No data available	Not Listed	No data available	No data available
Propylparaben	*	202-307-7	No data	Not Listed	No data	No data
94-13-3			available		available	available
Sodium Citrate Buffer	*	Not Listed	No data	Not Listed	No data	No data
MIXTURE			available		available	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 - vapor - mg/L	
Penicillin G benzathine	2000	No data available	No data available	No data available	No data available
41372-02-5					
Penicillin G procaine 54-35-3	>2000	No data available	No data available	No data available	No data available
Povidone 9003-39-8	100000	No data available	No data available	No data available	No data available

Additional information * Proprietary

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

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

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

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.

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

Note to physicians None.

Section 5: FIRE-FIGHTING MEASURES

00230796

effects

Revision date 22-Apr-2022 Version 4

5.1. Extinguishing media

Product Name Bicillin C-R

Suitable Extinguishing Media Use carbon dioxide, dry chemical, or water spray.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Not applicable.

Hazardous combustion products

Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and

Page 4/11

other sulfur-containing compounds.

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 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.

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.

Methods for cleaning up Contain the source of the spill or leak. Wipe up with a damp cloth and place in 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

Avoid breathing vapors or mists. 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.

Product Name Bicillin C-R Revision date 22-Apr-2022 Page 5/11 Version 4

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Methyl-p-hydroxybenzoate

Povidone

Russia MAC: 10 mg/m³

Russia MAC: 4 mg/m³

Propylparaben
Russia MAC: 10 mg/m³

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.

Penicillin G benzathine

Pfizer Occupational Exposure

Band (OEB):

Penicillin G procaine
Pfizer Occupational Exposure

Band (OEB):

8.2. Exposure controls

OEB 2 - Sensitizer (control exposure to the range of 100ug/m³ to < 1000ug/m³, provide

additional precautions to protect from skin contact)

OEB 2 - Sensitizer (control exposure to the range of 100ug/m³ to < 1000ug/m³, provide

additional precautions to protect from skin contact)

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.).

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.).

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Product Name Bicillin C-R Revision date 22-Apr-2022

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Color

Odor Odor threshold No information available

Molecular formula Molecular weight

Property Values

No data available рΗ Melting point / freezing point No data available

Boiling point / boiling range

Flash point No information available

Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressure No data available No data available Vapor density 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 Particle characteristics

Particle Size 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 No data available.

10.2. Chemical stability

Stability Stable.

Explosion data

Sensitivity to Mechanical Impact No data available. Sensitivity to Static Discharge No data available.

10.3. Possibility of hazardous reactions

00230796

Page 6/11 Version 4

Aqueous suspension

White

No information available.

Mixture

Mixture

No data available

No data available

No data available

No information available

Revision date 22-Apr-2022 Version 4

Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid Conditions to avoid

Product Name Bicillin C-R

None known.

10.5. Incompatible materials

Incompatible materialsAs 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 The information included in this section describes the potential hazards of

various forms of the active ingredient

Known Clinical Effects: May cause effects similar to those seen in clinical use including transient diarrhea, nausea

and abdominal pain. Individuals who are sensitive to beta lactam antibiotics, both penicillins and cephalosporins, may experience contact or systemic hypersensitivity and anaphylaxis

upon exposure to this drug.

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

Penicillin G benzathine

Mouse Oral LD50 2 g/kg

Penicillin G procaine

Mouse Oral LD50 > 2000 mg/kg Rat Oral LD50 > 2000 mg/kg

Povidone

Rat Oral LD50 100 g/kg

<u>Lecithin</u>

Rat Oral LD50 > 8 ml/kg

Methyl-p-hydroxybenzoate

Mouse Oral LD50 > 8 g/kg Rat Oral LD50 2100 mg/kg

Propylparaben

Mouse Oral LD 50 6332 mg/kg

Mouse Sub-tenon injection (eye) LD 50 200 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Penicillin G procaine	> 2 g/kg (Rat)	-	-	
Povidone	= 100 g/kg (Rat)	-	-	

achievable at the high

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)

Methyl-p-hydroxybenzoate

Acute Toxicity Comments:

Skin irritation Rabbit Non-irritating

Eye irritation Rabbit Slight

Skin Sensitization Guinea Pig Negative

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)
Methyl-p-hydroxybenzoate

28 Day(s) Rat Oral 250 mg/kg/day NOAEL Gastrointestinal System, Spleen, Thymus

00230796

Page 7/11 Version 4

Page 8/11

Revision date 22-Apr-2022 Version 4

Propylparaben

3 Week(s) Rat Oral 27.1 g/kg LOAEL Endocrine system

4 Week(s) Rat Oral 347.2 mg/kg LOAEL Male reproductive system

Penicillin V Potassium

Product Name Bicillin C-R

14 Day(s) Rat Oral 2400 mg/kg/day NOAEL None identified

14 Day(s) Mouse Oral 2400 mg/kg/day NOAEL None identified

13 Week(s) Rat Oral 750 mg/kg/day LOEL Gastrointestinal system

13 Week(s) Mouse Oral 250 mg/kg/day LOEL Gastrointestinal system

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

Methyl-p-hydroxybenzoate

Embryo / Fetal Development Rabbit Oral 300 mg/kg/day NOEL Maternal toxicity, Developmental toxicity

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

Methyl-p-hydroxybenzoate

In Vivo Dominant Lethal Assay Rat Negative

Penicillin V Potassium

In Vitro Bacterial Mutagenicity (Ames) Negative

In Vitro Cell Transformation Assay Mouse Lymphoma Positive with activation

Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Positive without activation Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Negative with activation

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Penicillin V Potassium

2 Year(s) Rat Oral 1000 mg/kg/day NOEL Not carcinogenic

2 Year(s) Mouse Oral 1000 mg/kg/day NOEL Not carcinogenic

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

OSHA. See below

<u>Povidone</u>

IARC Group 3 (Not Classifiable)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Section 12: ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should

be avoided.

12.1. Toxicity

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

Methyl-p-hydroxybenzoate

Oryzias latipes (Japanese Rice Fish) OECD LC50 96 hours 59.5 mg/L

Daphnia magna (Water Flea) ISO EC50 48 hours 11.2 mg/L

12.2. Persistence and degradability

Persistence and degradability

Biodegradation: (Method, Inoculum, Biodeg Study, Result, Endpoint, Duration, Classification)

Methyl-p-hydroxybenzoate

OECD Activated sludge Ultimate (CO2 Evolution) 89 % After 28 Day(s) Ready

00230796

Product Name Bicillin C-R Revision date 22-Apr-2022

12.3. Bioaccumulative potential

No information available. Bioaccumulation

12.4. Mobility in soil

No information available. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment		
Methyl-p-hydroxybenzoate	The substance is not PBT / vPvB		
Propylparaben	The substance is not PBT / vPvB		

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.

Section 15: REGULATORY INFORMATION

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

Penicillin G benzathine

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **EINECS** Not Listed

00230796

Page 9/11

Version 4

Page 10 / 11

Revision date 22-Apr-2022 Version 4

Penicillin G procaine

Product Name Bicillin C-R

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **TSCA** Present **EINECS** 200-205-7 Standard for Uniform Scheduling of Medicines and Schedule 4

Poisons (SUSMP)

Povidone

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

Lecithin

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **TSCA** Present **EINECS** 232-307-2 **AICS** Present

Methyl-p-hydroxybenzoate

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **TSCA** Present **EINECS** 202-785-7 **AICS** Present

Propylparaben

CERCLA/SARA Section 313 de minimus % Not Listed Not Listed **California Proposition 65** Present **TSCA EINECS** 202-307-7 **AICS** Present

Sodium Citrate Buffer

CERCLA/SARA Section 313 de minimus % Not Listed **California Proposition 65** Not Listed **EINECS** Not Listed

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)

Persistent Organic Pollutants

Not applicable

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

Not applicable

Chemical name		Plant protection products directive (91/414/EEC)		
	Lecithin - 8002-43-5	Plant protection agent		

Legend:

Product Name Bicillin C-R Revision date 22-Apr-2022

Revision date 22-Apr-2022 Version 4

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 Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Data Sources: Safety data sheets for individual ingredients. Pfizer proprietary drug development

information. Publicly available toxicity information.

Reason for revision Updated Section 3 - Composition / Information on Ingredients. Updated Section 8 -

Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information.

Page 11 / 11

Updated Section 12 - Ecological Information.

Revision date 22-Apr-2022

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.