

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	9374152-00009	Date of first issue: 27.08.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Cephapirin (with Peanut Oil) Formulation

Other means of identification : CEFA-SAFE (A007158)

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

Use of the Sub- stance/Mixture	: Veterinary product
Recommended restrictions on use	: Not applicable

1.3 Details of the supplier of the safety data sheet

Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Respiratory sensitisation, Category 1

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





Version 5.1	Revision Date: 28.09.2024		SDS Number: 0374152-0000		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Signa	l word	:	Danger		
Hazar	d statements	:	H334		cause allergy or asthma symptoms or breath- fficulties if inhaled.
Preca	utionary statements	:	Response: P304 + P34 P342 + P31	l0 IF keep ∣1 Ife	INHALED: Remove person to fresh air and comfortable for breathing. experiencing respiratory symptoms: Call a ON CENTER/ doctor.

Hazardous components which must be listed on the label:

Cefapirin

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 3.2 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cefapirin	21593-23-7 244-466-5	Resp. Sens. 1A; H334	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration.



Version 5.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20249374152-00009Date of first issue: 27.08.2021			
		If breathing is difficult, give oxygen. Get medical attention.			
In cas	se of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.			
In cas	se of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
lf swa	allowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
4.2 Most important symptoms and effects, both acute and delayed					
Risks		: May cause allergy or asthma symptoms or breathing dif ties if inhaled.	ficul-		
		Excessive exposure may aggravate preexisting asthma other respiratory disorders (e.g. emphysema, bronchitis, tive airways dysfunction syndrome).			
4.3 Indica	tion of any immediate	nedical attention and special treatment needed			

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically and supportively.
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SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.04.2024
5.1		9374152-00009	Date of first issue: 27.08.2021
			y to cool unopened containers. naged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate contained Clean up remaining materials from spill with suitable absor- bent.		
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regardir certain local or national requirements.	-	

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe mist or vapours.
		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety



Ver 5.1	rsion	Revision Date: 28.09.2024	-	DS Number: 74152-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
	Hygier	ne measures	:	sessment Keep container tig Already sensitised to asthma, allergi should consult the tory irritants or se Take care to prev environment. If exposure to che flushing systems place. When usin nated clothing be The effective ope engineering contr appropriate dego	d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira- onsitisers. vent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working g do not eat, drink or smoke. Wash contami- fore re-use. ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the
7.2	Conditi	ions for safe storage,	inc	luding any incom	patibilities
	•	ements for storage and containers	:		labelled containers. Keep tightly closed. nce with the particular national regulations.
	Advice	e on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents
7.3	•	c end use(s) ic use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Cefapirin	21593-23-7	TWA	0.4 mg/m3 (OEB 2)	Internal
	Further information: RSEN			

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment



Version 5.1	Revision Date: 28.09.2024		Number: 152-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021		
Eye/fa	ace protection	If the work enviro mists or aerosols Wear a faceshield		ses with side shields or goggles. Inment or activity involves dusty conditions, I, wear the appropriate goggles. Id or other full face protection if there is a st contact to the face with dusts, mists, or		
	Hand protection Material		Chemical-resistant gloves			
IVIC				it gioves		
	and body protection		Vork uniform or I			
Respi	ratory protection	s C E	: If adequate local exhaust ventilation is not available or exp sure assessment demonstrates exposures outside the rec ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387			
Filt	ter type	: 0	Combined particu	lates and organic vapour type (A-P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical	an	a chemical properti
Appearance Colour	:	suspension No data available
Odour Odour Threshold	:	No data available No data available
	•	
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available



Vers 5.1	sion	Revision Date: 28.09.2024		S Number: 74152-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
	octano Auto-ig	inition temperature	:	Not applicable No data available	
	Viscos Visc	cosity, kinematic	:	No data available	
	Oxidizi	ive properties ng properties	:	Not explosive The substance o	r mixture is not classified as oxidizing.
9.2 (nformation ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity ha	aza	rd.		
10.2 Chemical stability				
Stable under normal condition	s.			
10.3 Possibility of hazardous rea	ctic	ons		
Hazardous reactions	:	Can react with strong oxidizing agents.		
10.4 Conditions to avoid Conditions to avoid	:	None known.		
10.5 Incompatible materials				
Materials to avoid	:	Oxidizing agents		
10.6 Hazardous decomposition products No hazardous decomposition products are known.				
SECTION 11: Toxicological information				

11.1 Information on toxicological effects

Information on likely routes of	:	
exposure		Skin contact
		Ingestion
		Eye contact

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Cephapirin (with Peanut Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	9374152-00009	Date of first issue: 27.08.2021

Acute toxicity

Not classified based on available information.

Components:

Cefapirin:

Acute oral toxicity	:	LD50 (Mouse): 26,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Mouse): > 7,600 mg/kg Application Route: Intraperitoneal
		LD50 (Rat): 7,800 mg/kg

Application Route: Intraperitoneal

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Cefapirin:

Assessment

: Probability or evidence of high respiratory sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

Cefapirin:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES) Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Cefapirin:

Effects on fertility

: Test Type: Fertility/early embryonic development

UK REACH Regulations SI 2019/758



Cephapirin (with Peanut Oil) Formulation

Version 5.1	Revision Date: 28.09.2024	SDS Number: 9374152-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021	
			e: Intraperitoneal injection > 500 mg/kg body weight s on fertility	
Effects on foetal develop- ment		Species: Rat Application Route	 Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal injection Developmental Toxicity: LOAEL: > 200 mg/kg body weigh 	

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Cefapirin:

eerapiinii		
Species LOAEL Application Route Target Organs Remarks	::	Rat >= 200 mg/kg Intraperitoneal Blood anemia
Species LOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Dog 20 mg/kg Oral 4 Months Gastrointestinal tract
Species LOAEL Application Route Exposure time Target Organs Remarks	: : : : : : : : : : : : : : : : : : : :	Dog 100 mg/kg Intramuscular 10 Months Blood, Gastrointestinal tract anemia

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Cefapirin:

Ingestion

: Symptoms: Nausea, Vomiting, Abdominal pain, Diarrhoea, vaginitis, colitis, anorexia, Rash, anaphylaxis

UK REACH Regulations SI 2019/758

Cephapirin (with Peanut Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	9374152-00009	Date of first issue: 27.08.2021

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-	:	This substance/mixture does not contain components consid-
tial		ered to have endocrine disrupting properties for environment
		according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN r	number
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ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Cephapirin (with Peanut Oil) Formulation

Version 5.1	Revision Date: 28.09.2024		DS Number: 374152-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
IMDO			Not regulated as	a dangerous good
IATA			-	a dangerous good
	broper shipping name	•	Not regulated as	
-				
ADN		:	0	a dangerous good
ADR		:	-	a dangerous good
RID	_	:	-	a dangerous good
IMDO		:	-	a dangerous good
ΙΑΤΑ		:	Not regulated as	a dangerous good
14.3 Tran	sport hazard class(es)			
ADN		:	Not regulated as	a dangerous good
ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDO	3	:	Not regulated as	a dangerous good
ΙΑΤΑ	۱.	:	Not regulated as	a dangerous good
14.4 Pack	king group			
ADN		:	Not regulated as	a dangerous good
ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDO	3	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Cargo)	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Passenger)	:	Not regulated as	a dangerous good
-	14.5 Environmental hazards Not regulated as a dangerous good			
•	cial precautions for us	er		
14.7 Tran Rem	sport in bulk accordin arks	g to :	-	ol and the IBC Code r product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)

: Conditions of restriction for the following entries should be considered: Number on list 3

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Cephapirin (with Peanut Oil) Formulation

Version 5.1	Revision Date: 28.09.2024	SDS Number: 9374152-00009		f last issue: 06.04.2024 f first issue: 27.08.2021
				Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	REACH Candidate list o cern (SVHC) for Authoris	h :	Not applicable	
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)				Not applicable
	()	ces that deplete the ozo	ne :	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)			on :	Not applicable
GB	,	zardous chemicals - Pric gulation	or :	Not applicable
Con	trol of Major Accident Ha	azards Regulations 2015 Not applicable	5 (COMA	λH)

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported	in the following inventories:
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AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information	
Other information :	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements	
H334 :	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
Full text of other abbreviations	
Resp. Sens. :	Respiratory sensitisation



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	9374152-00009	Date of first issue: 27.08.2021

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

H334

Classification of the mixture:

Classification procedure:

Resp. Sens. 1

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Cephapirin (with Peanut Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	9374152-00009	Date of first issue: 27.08.2021

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