according to the Globally Harmonized System



Cephapirin (with Peanut Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.12.2023
2.0	28.09.2024	4037823-00012	Date of first issue: 01.03.2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Cephapirin (with Peanut Oil) Formulation		
Other means of identification	:	CEFA-SAFE (A007158)		
Manufacturer or supplier's de	eta	ils		
Company	:	MSD		
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207		
Telephone	:	+1-908-740-4000		
Emergency telephone number	:	+1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

Respiratory sensitisation : Category 1

		0,
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	Prevention: P233 Keep container tightly closed. P260 Do not breathe mist or vapours. P271 Use only outdoors or with adequate ventilation.

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			tective gloves/ protective clothing. piratory protection.
		keep comfortat P342 + P316 If	F INHALED: Remove person to fresh air and ble for breathing. experiencing respiratory symptoms: Get emer- help immediately.
		Storage: P403 Store in a	a well-ventilated place.
		Disposal:	
		P501 Dispose disposal plant.	of contents/ container to an approved waste

Additional Labelling

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration (%
		w/w)
Cefapirin	21593-23-7	>= 1 - < 5
Aluminum tristearate	637-12-7	>= 1 - < 5

4. 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.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).

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Protection of first-aiders Notes to physician		:	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). Treat symptomatically and supportively.			
5. F	REFIGHTING MEASURES					
	Suitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
	Unsuitable extinguishing media	:	None known.			
	Specific hazards during fire- fighting		Exposure to comb	pustion products may be a hazard to health.		
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides			
	Specific extinguishing meth- ods	:	: Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.			
	Special protective equipment for firefighters	:		e, wear self-contained breathing apparatus. ective equipment.		
6. A	CCIDENTAL RELEASE MEAS	SUF	RES			
	Personal precautions, protec- tive equipment and emer- gency procedures	• :	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
	Environmental precautions	:		he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil		

Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and dis-

cannot be contained.

posal of this material, as well as those materials and items

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		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 regarding certain local or national requirements.		
7. HANDL	ING AND STORAGE			
Local	nical measures /Total ventilation e on safe handling	CONTROLS/ Use only with Do not breath Do not swallo Avoid contact Avoid prolong Handle in acc practice, base sessment Keep contain Already sensi to asthma, all should consu tory irritants of	with eyes. Jed or repeated contact with skin. Fordance with good industrial hygiene and safety ed on the results of the workplace exposure as- er tightly closed. tised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, It their physician regarding working with respira-	
	itions for safe storage	: Keep in prope Keep tightly of Store in acco	rdance with the particular national regulations.	
Mater	ials to avoid	: Do not store Strong oxidiz	with the following product types: ng agents	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cefapirin	21593-23-7	TWA	0.4 mg/m3 (OEB 2)	Internal
	Further inform	ation: RSEN		
Aluminum tristearate	637-12-7	TWA (Inhal- able particu- late matter) TWA (Res- pirable par- ticulate mat-	10 mg/m3 3 mg/m3	ACGIH ACGIH
		ter)		
		TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3 (Aluminium)	ACGIH

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Engineering measures		technologies quick connec All engineerir design and o protect produ	ate engineering controls and manufacturing to control airborne concentrations (e.g., drip-less tions). Ing controls should be implemented by facility perated in accordance with GMP principles to cts, workers, and the environment. Derations do not require special containment.
Pers	onal protective equip		
Resp	iratory protection	: If adequate lo sure assessn ommended g	ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. rticulates and organic vapour type
Hand	protection aterial	: Chemical-res	
Eye ç	mists or aerosols, wear the appropria Wear a faceshield or other full face p		vironment or activity involves dusty conditions,
Skin	and body protection		or laboratory coat.
Hygie	ene measures	flushing syste place. When using of Wash contain The effective engineering of appropriate d industrial hyg	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	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

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Vers 2.0	sion	Revision Date: 28.09.2024		S Number: 7823-00012	Date of last issue: 04.12.2023 Date of first issue: 01.03.2019
	Evapor	ation rate	:	No data available	
	Evapor	allon rale	•		
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available	9
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

11. TOXICOLOGICAL INFORMATION

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ersion)	Revision Date: 28.09.2024		S Number: 37823-00012	Date of last issue: 04.12.202 Date of first issue: 01.03.201
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
-	assified based on availa	ble	information.	
	oonents:			
Cefap				
Acute	oral toxicity	:	LD50 (Mouse):	26,000 mg/kg
	toxicity (other routes of istration)	:	· · /	> 7,600 mg/kg ute: Intraperitoneal
			LD50 (Rat): 7,8 Application Rot	800 mg/kg ute: Intraperitoneal
Alum	inum tristearate:			
Acute	oral toxicity	:		ale): > 2,000 mg/kg ed on data from similar materials
Acute inhalation toxicity		:		4 h
•••••	corrosion/irritation assified based on availa	ble	nformation.	
Comp	oonents:			
Alum	inum tristearate:			
Speci Metho Rema	es od	:	OECD Test Gu	numan epidermis (RhE) ideline 439 from similar materials
Resul	t	:	No skin irritatio	n
Not cl	us eye damage/eye irri assified based on availa ponents:			
Alum	inum tristearate:			
Speci		:	Rabbit	
Metho		:	OECD Test Gu No eye irritation	
Resul				

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	Revision Date: 28.09.2024		DS Number: 137823-00012	Date of last issue: 04.12.2023 Date of first issue: 01.03.2019	
Resn	iratory or skin sensi	itisatio	n an		
-	-	nisan			
•••••	sensitisation lassified based on ava	ailahla	information		
			information.		
-	iratory sensitisation		notoms or breath	ng difficulties if inhaled.	
	ponents:	na oyn			
0.1					
Cefa Asse	pirin: ssment		Probability or e	vidence of high respiratory sensitisation rat	
A330.	Soment		humans		
	inum tristearate:				
Test		:		de assay (LLNA)	
Spec	sure routes ies		Skin contact Mouse		
Meth		:	OECD Test Gu	ideline 429	
Resu		:	negative		
Rema	arks	:	: Based on data from similar materials		
	n cell mutagenicity lassified based on ava	ailable	information.		
Not c <u>Com</u> Cefa	lassified based on ava ponents:	ailable :		terial reverse mutation assay (AMES) e	
Not c <u>Com</u> Cefa Geno	lassified based on ava ponents: pirin:	ailable :	Test Type: Bac		
Not c <u>Com</u> Cefa Geno Alum	lassified based on ava ponents: pirin: toxicity in vitro	ailable : :	Test Type: Bac Result: negative Test Type: In vi Method: OECD Result: negative	e tro mammalian cell gene mutation test Test Guideline 476	
Not c <u>Com</u> Cefa Geno Alum	lassified based on ava ponents: pirin: toxicity in vitro inum tristearate:	ailable :	Test Type: Bac Result: negative Test Type: In vi Method: OECD Result: negative Remarks: Base Test Type: Bac Method: OECD Result: negative	tro mammalian cell gene mutation test Test Guideline 476 e d on data from similar materials terial reverse mutation assay (AMES) Test Guideline 471	

Carcinogenicity

Not classified based on available information.

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Not cl	oductive toxicity lassified based on avai ponents:	lable	information.	
Cefa	oirin:			
	ts on fertility	:	Species: Rat Application Route	ty/early embryonic development e: Intraperitoneal injection > 500 mg/kg body weight s on fertility
Effect ment	ts on foetal develop-	:	Species: Rat Application Route	yo-foetal development e: Intraperitoneal injection oxicity: LOAEL: > 200 mg/kg body weight
Alum	inum tristearate:			
Effect	ts on fertility	:	Species: Rat Application Route Method: OECD T Result: negative	eneration reproduction toxicity study e: Ingestion est Guideline 416 on data from similar materials
Effect ment	ts on foetal develop-	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Cefapirin:

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

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Expo	EL ication Route osure time et Organs	: Dog : 100 mg/kg : Intramuscula : 10 Months : Blood, Gasti : anemia	ar ointestinal tract
Spec NOA	EL	: Rat : >= 5,000 mg	/kg
	ication Route osure time arks	: Ingestion : 90 Days : Based on da	ta from similar materials
Not c	ration toxicity classified based on ava		
-	erience with human e	xposure	
	ponents:		
Inges	pirin: stion		Nausea, Vomiting, Abdominal pain, Diarrhoea, itis, anorexia, Rash, anaphylaxis
12. ECOL	OGICAL INFORMATI	ON	
Ecot	oxicity		
<u>Com</u>	ponents:		
Alun	ninum tristearate:		
	oxicology Assessme		
Acute	e aquatic toxicity	: Toxic effects	cannot be excluded
Chro	nic aquatic toxicity	: Toxic effects	cannot be excluded
	istence and degradat ata available	bility	
	ccumulative potentia ata available	I	
	ility in soil ata available		
Othe	er adverse effects		

No data available

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13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	28.09.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	dd.mm.yyyy
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Full text of other abbreviations

ACGIH

: USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA

8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

IN / EN