

Ampicillin Formulation

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Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
1.6	06.04.2024	10092840-00007	Date of first issue: 27.10.2021

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

1.1	Product identifier		
	Trade name	:	Ampicillin Formulation
1.2	Relevant identified uses of t	he s	ubstance 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	e saf	ety data sheet
	Company	:	MSD
			Kilsheelan
			Clanmal Tinnaran, IE
			Clonmel Tipperary, IE
	Telephone	:	353-51-601000

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)

Respiratory sensitisation	, Category 1
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Long-term (chronic) aquatic hazard, Category 3

2.2 Label elements

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

H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms

Signal word

Hazard statements

May cause allergy or asthma symptoms or breath-

Danger

H334

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			g difficulties if inhaled. armful to aquatic life with long lasting effects.
Preca	autionary statements	: Prevention: P273 A	void release to the environment.
		ke P342 + P311	IF INHALED: Remove person to fresh air and eep comfortable for breathing. If experiencing respiratory symptoms: Call a OISON CENTER/ doctor.

Hazardous components which must be listed on the label:

ampicillin

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 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)
ampicillin	69-53-4 200-709-7	Resp. Sens. 1; H334 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 4: First aid measures

4.1 Description of first aid mea	sures	6
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. 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.
4.2 Most important symptoms	and e	ffects, both acute and delayed
Risks	:	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).
4.3 Indication of any immediate	e med	lical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.
SECTION 5: Firefighting mea	asure	25

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.



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5.2	-	•			xture bustion products may be a hazard to health.
	Hazaro	lous combustion prod-	:	Nitrogen oxides (l Carbon oxides Sulphur oxides	NOx)
5.3 Advice for firefightersSpecial protective equipment for firefightersSpecific extinguishing methods		:	Use personal prod Use extinguishing cumstances and t Use water spray t	e, wear self-contained breathing apparatus. tective equipment. I measures that are appropriate to local cir- the surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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).

cannot be contained.

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Ξ	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 container. 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 regarding certain local or national requirements.
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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	÷	Avoid breathing 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
			practice, based on the results of the workplace exposure as-
			Keep container tightly closed.
			Already sensitised individuals, and those susceptible
			to asthma, allergies, chronic or recurrent respiratory disease,
			should consult their physician regarding working with respira-
			tory irritants or sensitisers.
			Take care to prevent spills, waste and minimize release to the
			environment.
Hygiene measures		:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.
			The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
72	Conditions for safe storage,	incl	uding any incompatibilities
	- ·		
	Requirements for storage areas and containers	•	Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.
	Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
7.3	Specific end use(s)		

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis	
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		of exposure)		
ampicillin	69-53-4	TWA	0.6 mg/m3 (OEB 2)	Internal
	Further information: RSEN			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Glycerides, mixed decanoyl and oc- tanoyl	Workers	Inhalation	Long-term systemic effects	177.79 mg/m3
	Workers	Skin contact	Long-term systemic effects	25.21 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	43.84 mg/m3
	Consumers	Skin contact	Long-term systemic effects	12.61 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12.61 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycerides, mixed decanoyl and octanoyl	Oral (Secondary Poisoning)	0.03 mg/kg food

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

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	white to off-white
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Flash point Auto-ignition temperature	:	No data available No data available
Auto-ignition temperature	:	No data available
Auto-ignition temperature Decomposition temperature	:	No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity	: :	No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies)	: : :	No data available No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n-	::	No data available No data available No data available No data available
Auto-ignition temperature Decomposition temperature pH Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water	::	No data available No data available No data available No data available No data available

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Relative vapour density		: N	o data available	e
Particle characteristics Particle size		: N	ot applicable	
9.2 Other information Explosives		: N	ot explosive	
0	Oxidizing properties		he substance o	r mixture is not classified as oxidizing.
E	vaporation rate	: N	o data available	9
Μ	lolecular weight	: N	o data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity						
Not classified as a reactivity hazard.						
10.2 Chemical stability						
Stable under normal conditions.						
10.3 Possibility of hazardous reaction	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 proc	lucts					
No hazardous decomposition pro-	ducts are known.					
SECTION 11: Toxicological infor	mation					

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Acute toxicity

Not classified based on available information.

Components:

ampicillin:Acute oral toxicity: LD50 (Rat): 10,000 mg/kg

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		I	LD50 (Mouse): 15	5,200 mg/kg
	e toxicity (other routes c inistration)		LD50 (Rat): 6,200 Application Route	
			LD50 (Mouse): 4, Application Route	
•	corrosion/irritation	lahla ir	formation	
	ous eye damage/eye ir classified based on avai			
-	piratory or skin sensiti	Sation		
•	sensitisation			
	classified based on avai	lable in	formation.	
	piratory sensitisation cause allergy or asthmatic	a symp	toms or breathing	difficulties if inhaled.
-	iponents:			
	icillin:			
-	osure routes	·	Inhalation	
Resi			Sensitiser	
	n cell mutagenicity			
Not	classified based on avai	lable in	nformation.	
<u>Com</u>	ponents:			
amp	icillin:			
Gen	otoxicity in vitro		Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				o mammalian cell gene mutation test se lymphoma cells

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Result: negative

Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative

Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative

Result: negative

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Geno	otoxicity in vivo	:	Test Type: Micror Species: Rat Application Route Result: negative	
	inogenicity classified based on avai	lable	information.	
Com	ponents:			
amp	icillin:			
Spec Appli Expo		:	Rat Oral 2 Years 750 mg/kg body v adrenal, Leukaen	weight nia, breast tumors
Expo	ication Route osure time or Type	:	Mouse Oral 2 Years 3,000 mg/kg body Lungs	y weight
Rem	arks	:	Benign tumor(s)	
Carc ment	inogenicity - Assess- t	:	Weight of evidend cinogen	ce does not support classification as a car-
-	roductive toxicity classified based on avai	lable	information.	
<u>Com</u>	ponents:			
-	icillin: cts on fertility	:	Test Type: Fertilit Species: Guinea Target Organs: U	ry pig Iterus (including cervix)
Effec	cts on foetal develop- t	:		opment oxicity: NOAEL: 250 mg/kg body weight s on foetal development
et o				

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

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	Repea	ted dose toxicity			
	Comp	onents:			
	ampic	illin:			
	Specie LOAEL Applica	s - ation Route ure time	:	Rat 3,000 mg/kg Oral 13 Weeks Diarrhoea	
		- ation Route ure time	:	Mouse 2,000 mg/kg Oral 13 Weeks Diarrhoea	
	Exposi	ation Route ure time Organs	:	Rat 750 mg/kg Oral 2 yr Thyroid, forestom Diarrhoea, Saliva	ach tion, decreased activity
	Exposi	- ation Route ure time Organs	:	Mouse 2,000 mg/kg Oral 2 yr forestomach Ulceration, Inflam	mation, fungal infections
	•	tion toxicity ssified based on avail	able i	nformation.	
11.2	Inform	nation on other hazar	ds		
	Endoc	rine disrupting prop	erties		
	<u>Produ</u> Assess			ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

Experience with human exposure

Components:

ampicillin:

Inhalation

: Symptoms: Asthma, Hay fever Remarks: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Ingestion		:	: Symptoms: skin rash, Nausea, Diarrhoea, Vomiting, colitis, urticaria				
SECTION	12: Ecological infor	ma	tion				
12.1 Toxici	ity						
Comp	onents:						
ampic	illin:						
Toxicit	y to fish	:	LC50 (Oryzias latipes (Japanese medaka)): > 1,000 mg/l Exposure time: 96 h				
			LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h				
	y to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h				
Toxicit plants	y to algae/aquatic	:	EC50 (Anabaena flos-aquae): 190 μg/l Exposure time: 72 h Method: OECD Test Guideline 201				
			NOEC (Anabaena flos-aquae): 13 µg/l Exposure time: 72 h Method: OECD Test Guideline 201				
			EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
			NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
M-Facticity)	tor (Acute aquatic tox-	:	1				
Toxicit	y to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209				
			NOEC : 9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209				

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12.2 Persistence and degradability

Components:

ampicillin:

Biodegradability

Result: rapidly degradable Biodegradation: 35 % Exposure time: 28 d Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

ampicillin:

Partition coefficient: n-	: log Pow: -2.	.0
octanol/water	pH: 7	

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 Endocrine disrupting properties

Р	r	n	Ч	u	C	f	
		v	u	u	ັ	L	

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

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
Contaminated packaging	:	discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han-

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dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number				
ADN	:	Not regulated as a dangerous good		
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.2 UN proper shipping name				
ADN	:	Not regulated as a dangerous good		
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.3 Transport hazard class(es)				
ADN	:	Not regulated as a dangerous good		
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.4 Packing group				
ADN	:	Not regulated as a dangerous good		
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
IATA (Cargo)	:	Not regulated as a dangerous good		
IATA (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards				
Not regulated as a dangerous good				

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considere Number on list 3	
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of the use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation of determine whether an entry is appli- cable to the placing on the market not.	e eir ie di- to li-
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable	
Regulation (EC) No 1005/2009 on substances that de-	: Not applicable	

plete the ozone layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)		
Regulation (EU) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
REACH - List of substances subject to authorisation	:	Not applicable
(Annex XIV)		

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

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			lines.				
Full	text of H-Statements						
H334	H334		May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.				
H40	H400		Very toxic to aquatic life.				
H41	H411		Toxic to aquatic life with long lasting effects.				
Full	text of other abbrevia	ations					
Aqua	atic Acute atic Chronic 5. Sens.	:		te) aquatic hazard nic) aquatic hazard sitisation			

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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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 Agency, http://echa.europa.eu/

Classification of the mixture:

Classification procedure:



Ampicillin Formulation

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Resp	. Sens. 1	H334	Calculation method	
Aquatic Chronic 3		H412	Calculation method	

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