

Ampicillin Formulation

Version	Revision Date: 2024/04/06	SDS Number:	Date of last issue: 2023/09/30
4.0		10082471-00007	Date of first issue: 2021/10/27

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Ampicillin Formulation				
	Supplier's company name, address and phone number					
Company name of supplier	:	MSD				
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory				
Telephone	:	048-588-8411				
E-mail address	:	EHSDATASTEWARD@msd.com				
Emergency telephone number	:	+1-908-423-6000				

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chem	ical p	product
Respiratory sensitisation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours.



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P273 Avoid release to the environment. P284 Wear respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

oomponomo			
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
ampicillin	69-53-4	>= 10 - < 20	

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 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	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
delayed		Excessive exposure may aggravate preexisting asthma and
-		other respiratory disorders (e.g. emphysema, bronchitis, reac-
		tive airways dysfunction syndrome).
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).
Notes to physician	:	Treat symptomatically and supportively.
		•

5. FIREFIGHTING MEASURES



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Suitat	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide		
Unsui media	itable extinguishing	:	Dry chemical None known.		
	fic hazards during fire-	:	Exposure to con	nbustion products may be a hazard to health.	
	dous combustion prod-	:	Nitrogen oxides Carbon oxides Sulphur oxides	(NOx)	
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to d	
	al protective equipment efighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
6. ACCIDE	ENTAL RELEASE MEAS	SUF	RES		
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).	
Enviro	onmental precautions	:	Prevent further I Prevent spreadi barriers). Retain and disp	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or c ose of contaminated wash water. s should be advised if significant spillages ined.	
	ods and materials for inment and cleaning up	:	For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate containen- ning materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ilations are applicable. 15 of this SDS provide information regarding national requirements.	



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7. HANDLING AND STORAGE

Handling		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	:::	Use only with adequate ventilation. 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- sessment 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.
Avoidance of contact Hygiene measures	:	Oxidizing agents 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 contaminated 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.
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Reference concentration / Permissible con- centration	Basis
ampicillin	69-53-4	TWA	0.6 mg/m3 (OEB	Internal



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			Further information:	2) RSEN			
Eng	ineering measures	:	technologies to cor less quick connecti All engineering con design and operate protect products, w	gineering controls and trol airborne concentra ons). trols should be implem d in accordance with G orkers, and the enviror ons do not require spec	tions (e.g., drip- ented by facility GMP principles to ment.		
Pers	onal protective equipm	nent					
	Respiratory protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.				
Hand	Filter type Hand protection Material		Combined particulates and organic vapour typeChemical-resistant gloves				
Eye	Eye protection		If the work environments or aerosols, we wear a faceshield of potential for direct of the second sec	s with side shields or g nent or activity involves year the appropriate go or other full face protec contact to the face with	s dusty conditions, oggles. tion if there is a		
Skin	and body protection	:	aerosols. Work uniform or laboratory coat.				
9. PHYSI	CAL AND CHEMICAL P	ROI	PERTIES				
Phys	sical state	:	suspension				
Colo	ur	:	white to off-white				
Odo	ur	:	No data available				
Odo	ur Threshold	:	No data available				
Melti	ing point/freezing point	:	No data available				
	ng point, initial boiling t and boiling range	:	No data available				
Flam	nmability (solid, gas)	:	Not applicable				

Flammability (liquids) : No data available

Lower flammability limit

Lower explosion limit and upper explosion limit / flammability limit Upper explosion limit / Up- : No data available per flammability limit Lower explosion limit / : No data available

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Floop	noint		No data available	
Flash		•	No data available	
	nposition temperature	:	No data available	
рН		:	No data available	2
Evapo	pration rate	:	No data available	9
Auto-i	gnition temperature	:	No data available	9
Viscos Vis	sity scosity, kinematic	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	on coefficient: n- ol/water	:	Not applicable	
Vapou	ur pressure	:	No data available	9
	ty and / or relative dens lative density	ity :	No data available	9
De	ensity	:	No data available	9
Relativ	ve vapour density	:	No data available	9
Explos	sive properties	:	Not explosive	
Oxidiz	ring properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	9
	le characteristics rticle size	:	Not applicable	

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION



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Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
Com	ponents:			
ampi	cillin:			
Acute	e oral toxicity	:	LD50 (Rat): 10,00	00 mg/kg
			LD50 (Mouse): 15	5,200 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 6,200 Application Route	
			LD50 (Mouse): 4, Application Route	
II Skin	corrosion/irritation			
-	lassified based on availa	ble	information.	
	ous eye damage/eye irri lassified based on availa			
Resp	iratory or skin sensitis	atic	on	
•••••	sensitisation lassified based on availa	ble	information.	
	iratory sensitisation			
•	cause allergy or asthma	sym	ptoms or breathing	g difficulties if inhaled.
	ponents:			
Expo	cillin: sure routes	:	Inhalation	
Resu	lt	:	Sensitiser	
	n cell mutagenicity lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
ampi	cillin:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				o mammalian cell gene mutation test ise lymphoma cells



Result: negative 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: Chinese hamster ovary cells Result: negative Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative Genotoxicity in vivo Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Mot classified based on available information. Components: ampicillin: Species : Rat Application Route : Oral Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : Ungs Remarks : Beign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a o inogen : Gingen Remarks : Beign tumor(s) Carcinogenicity - Assess-	ersion .0	Revision Date: 2024/04/06	SDS Number: 10082471-00007	Date of last issue: 2023/09/30 Date of first issue: 2021/10/27
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 Genotoxicity in vivo Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Test Type: Micronucleus test Species: Rat Application Route : Oral Exposure time 2 Years 750 mg/kg body weight Tumor Type Remarks 2 Years 3.000 mg/kg body weight Tumor Type Remarks 2 Years 2 Years 2 Years Benign tumor(s) Carcinogenicity - Assess- timent Reproductive toxicity Not classified based on available information. Components: Tumor Type Remarks Remarks Result: negative Remarks Result: negative Remarks Result: negative Reproductive toxicity Not classified based on available information. Components: Reproductive toxicity Remarks Result: negative Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Reproductive toxicity Reproductive toxicity Result: negative Reproductive toxicity Result: negative Reproductive toxicity Reproductive toxicity Reproductiv				
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 Genotoxicity in vivo : Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Carcinogenicity Not classified based on available information. Components: ampicillin: Species: Rat Application Route : Oral Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight : Tumor Type : 1 Umor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen ment : Exposure time : Benign tumor(s) : Carcin	II		Result: negati	ve
Test system: Chinese hamster ovary cells Result: negative Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative Genotoxicity in vivo : Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Carcinogenicity Not classified based on available information. Components: ampicillin: Species : Rat Application Route : Oral Exposure time : : ? 750 mg/kg body weight Tumor Type : : ? Years : ? Species : ? Years : ? Years : ? Species : ? Species : ? Species : ? Years :			Test system:	Chinese hamster ovary cells
Test system: Human lymphocytes Result: negative Genotoxicity in vivo : Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative Carcinogenicity Not classified based on available information. Components: ampicillin: Species : Rat Application Route : Oral Exposure time : 2 Years :: 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years :: 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a or ment : cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)			Test system:	Chinese hamster ovary cells
Species: Rat Application Route: Oral Result: negative Carcinogenicity Not classified based on available information. Components: ampicillin: Species Rat Application Route Application Route Oral Exposure time Exposure time 2 Years Cross Tumor Type adrenal, Leukaemia, breast tumors Species Mouse Application Route Application Route Oral Crail Exposure time 2 Years Crail Species Mouse Application Route Application Route Oral Exposure time 2 Years Crail Carcinogenicity - Assess- ment Benign tumor(s) Carcinogenicity - Assess- ment Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)			Test system:	Human lymphocytes
Not classified based on available information. Components: ampicillin: Species : Rat Application Route : Oral Exposure time : 2 Years :: 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years :: 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility :: Species: Guinea pig :: Target Organs: Uterus (including cervix)	Geno	toxicity in vivo	Species: Rat Application Re	oute: Oral
Components: ampicillin: Species : Application Route : Coral Exposure time : : ?50 mg/kg body weight Tumor Type : : adrenal, Leukaemia, breast tumors Species : Application Route : : ?50 mg/kg body weight Tumor Type : : 3,000 mg/kg body weight : :<	Carci	nogenicity		
ampicilin: Species : Rat Application Route : Oral Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)			ilable information.	
Species : Rat Application Route : Oral Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity . Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	-			
Application Route : Oral Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity . Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)			· Dot	
Exposure time : 2 Years : 750 mg/kg body weight Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)				
Tumor Type : adrenal, Leukaemia, breast tumors Species : Mouse Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)				
Application Route : Oral Exposure time : 2 Years : 3,000 mg/kg body weight Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- : Weight of evidence does not support classification as a cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	Tumo	or Type		
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Tumor Type : Lungs Remarks : Benign tumor(s) Carcinogenicity - Assess- ment : Weight of evidence does not support classification as a classified based on available information. Reproductive toxicity Not classified based on available information. . Components: ampicillin: . Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	Expo	sure time		ody weight
Remarks : Benign tumor(s) Carcinogenicity - Assessment : Weight of evidence does not support classification as a cinogen Reproductive toxicity : Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	Tumo	or Type		body weight
ment cinogen Reproductive toxicity Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)				(s)
Not classified based on available information. Components: ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)		nogenicity - Assess-	-	dence does not support classification as a car-
ampicillin: Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	•	•	ilable information.	
Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	<u>Com</u>	oonents:		
Effects on fertility : Test Type: Fertility Species: Guinea pig Target Organs: Uterus (including cervix)	ampi	cillin:		
Effects on foetal develop- : Test Type: Development			Species: Guin	nea pig
	Effect	ts on foetal develop-	: Test Type: De	evelopment



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		Toxicity: NOAEL: 250 mg/kg body weight ets on foetal development
- single exposure		
	ailable information	
ted dose toxicity		
onents:		
illin:		
s ation Route ure time oms	: Rat : 3,000 mg/kg : Oral : 13 Weeks : Diarrhoea	
s ation Route ure time oms	: Mouse : 2,000 mg/kg : Oral : 13 Weeks : Diarrhoea	
s ation Route ure time Organs oms		mach ration, decreased activity
s ation Route ure time Organs oms	: Mouse : 2,000 mg/kg : Oral : 2 yr : forestomach : Ulceration, Infla	mmation, fungal infections
	 repeated exposure ssified based on avainated dose toxicity onents: Illin: s ation Route are time boxs boxs ation Route are time boxs boxs ation Route are time boxs boxs boxs cons cons<!--</td--><td>result: No effect • single exposure ssified based on available information. • repeated exposure ssified based on available information. ted dose toxicity onents: Illin: s : Rat ation Route <td: 0,000="" kg<="" mg="" td=""> tre time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : Diarrhoea, Saliv s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : Diarrhoea, Saliv s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : fore</td:></td>	result: No effect • single exposure ssified based on available information. • repeated exposure ssified based on available information. ted dose toxicity onents: Illin: s : Rat ation Route <td: 0,000="" kg<="" mg="" td=""> tre time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 13 Weeks poms : Diarrhoea s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : Diarrhoea, Saliv s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : Diarrhoea, Saliv s : 2,000 mg/kg titon Route : Oral ure time : 2 yr Organs : fore</td:>

Components:

ampicillin: Inhalation

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



ersion)	Revision Date: 2024/04/06		0S Number: 082471-00007	Date of last issue: 2023/09/30 Date of first issue: 2021/10/27
Ingest	tion	:	Symptoms: skin urticaria	n rash, Nausea, Diarrhoea, Vomiting, colitis,
. ECOLO	DGICAL INFORMATION	1		
Ecoto	oxicity			
<u>Comp</u>	oonents:			
ampic Toxici	cillin: ty to fish	:	LC50 (Oryzias I Exposure time:	atipes (Japanese medaka)): > 1,000 mg/l 96 h
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	Exposure time:	na flos-aquae): 190 μg/l 72 h Test Guideline 201
			Exposure time:	na flos-aquae): 13 μg/l 72 h Test Guideline 201
			mg/l Exposure time:	irchneriella subcapitata (green algae)): > 10 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 10 72 h Test Guideline 201
	ctor (Acute aquatic tox-	:	1	
icity) Toxici	ty to microorganisms	:		•
			NOEC: 9 mg/l Exposure time: Test Type: Res Method: OECD	3 h piration inhibition Test Guideline 209



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Pers	istence and degradab	ility			
<u>Com</u>	ponents:				
ampi	icillin:				
Biode	egradability	:	Result: rapidly d Biodegradation: Exposure time: 2 Method: OECD	35 %	
Bioa	ccumulative potential				
<u>Com</u>	ponents:				
ampi	icillin:				
	tion coefficient: n- nol/water	:	log Pow: -2.0 pH: 7		
	i lity in soil ata available				
	rdous to the ozone lay	yer			
	r adverse effects ata available				
13. DISPO	DSAL CONSIDERATIO	NS			
Disp	osal methods				
Wast	e from residues	:		cordance with local regulations.	
Conta	aminated packaging	:	Do not dispose of waste into sewer. Empty containers should be taken to an approved waste dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product		
14. TRAN	SPORT INFORMATIO	N			
Inter	national Regulations				
Prop Class Subs Pack Labe	umber er shipping name s idiary risk ing group		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no		

IATA-DGRUN/ID No.:Proper shipping name:Not applicable



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	Packin Labels Packin aircraft	g instruction (cargo) g instruction (passen-	:	Not applicable Not applicable Not applicable Not applicable Not applicable	
	Class Subsid Packin Labels EmS C	nber shipping name iary risk g group		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable



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on No		rmation on Chemicals having Mutagenicity	having Mutagenicity - Annex 1: Informatio
	tances Subject to b	e Notified Names	
	tances Subject to b pplicable	e Indicated Names	
	tances Subject to b pplicable	e Indicated Names	
tions		es (Article 577-2 of the	Occupational Health and Safety Regula-
	nance on Prevention pplicable	n of Hazards Due to Sp	ecified Chemical Substances
	nance on Prevention pplicable	n of Lead Poisoning	
	nance on Prevention pplicable	n of Tetraalkyl Lead Po	isoning
	nance on Prevention pplicable	n of Organic Solvent Po	oisoning
Subs	r cement Order of th tances) pplicable	e Industrial Safety and	Health Law - Attached table 1 (Dangerous
Poiso		ous Substances Contro	bi Law
viron			of Specific Chemical Substances in the En the Management Thereof
•	Pressure Gas Safet	ty Act	
-	psive Control Law		
	el Safety Law egulated as a danger	ous good	
	ion Law egulated as a danger	ous good	
		a Disaster Prevention e	etc Law
Bulk	transportation	: Not classified as	s noxious liquid substance
Pack	transportation	: Not classified as	s marine pollutant



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Narco	otics and Psychotrop	ics C	Control Act					
Not a Speci	Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable							
	Waste Disposal and Public Cleansing Law Industrial waste							
The c	The components of this product are reported in the following inventories:							
AICS		:	not determined					
DSL		:	not determined					
IECS	С	:	not determined					

16. OTHER INFORMATION

Further information

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

: yyyy/mm/dd

Full text of other abbreviations

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 Develop-



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ment; 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.

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