



Vers 4.0	sion	Revision Date: 2024/09/28		S Number: 343370-00006	Date of last issue: 2023/12/05 Date of first issue: 2022/08/30
1. P	RODUC	T AND COMPANY ID	ENT	IFICATION	
	Chemic	al product name	:	Cloxacillin / Amp	icillin Formulation
	Other m	neans of identification	:	Bovaclox Dry Co	w (A004495)
	••	er's company name, any name of supplier	addr :	ess and phone n MSD	umber
	Address	5	:	Kumagaya, Saita Menuma factory	ama Prefecture, Xicheng 810 MSD Co., Ltd.
	Telepho	one	:	048-588-8411	
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com
	Emerge	ency telephone numbe	r:	+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 chemic Respiratory sensitisation	cal :	
Skin 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	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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		H401 Toxic to a H412 Harmful t	aquatic life. to aquatic life with long lasting effects.
Preca	autionary statements	P272 Contamir the workplace. P273 Avoid rele P280 Wear pro	eathing vapours. hated work clothing should not be allowed out of ease to the environment. htective gloves. piratory protection.
		P304 + P340 IF keep comfortat P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	F ON SKIN: Wash with plenty of water. F INHALED: Remove person to fresh air and ble for breathing. Skin irritation or rash occurs: Get medical ad- experiencing respiratory symptoms: Call a FER/ doctor. Fake off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
White mineral oil (petroleum)	8042-47-5	>= 70 - < 80	9-1700
cloxacillin	61-72-3	>= 10 - < 20	-
ampicillin	69-53-4	>= 2.5 - < 10	-
Hydroxyaluminum distearate	300-92-5	>= 1 - < 10	2-3007, 2-625

4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.



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lf inha	aled	:	If inhaled, remov					
In cas	In case of skin contact		 If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. In case of contact, immediately flush skin with soap and p of water. Remove contaminated clothing and shoes. Get medical attention. 					
	se of eye contact	:	Wash clothing be Thoroughly clear Flush eyes with Get medical atte If swallowed, DC					
	important symptoms ffects, both acute and ed	:	Rinse mouth tho May cause an al May cause allerg ties if inhaled. Excessive expos	roughly with water. lergic skin reaction. gy or asthma symptoms or breathing difficul- sure may aggravate preexisting asthma and				
	ction of first-aiders	:	tive airways dyst First Aid respond and use the reco when the potent	disorders (e.g. emphysema, bronchitis, reaction function syndrome). ders should pay attention to self-protection, promended personal protective equipment fal for exposure exists (see section 8). tically and supportively.				
	GHTING MEASURES	•	Treat symptoma					
-	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical					
Unsui media	table extinguishing	:	None known.					
Specii fightin	fic hazards during fire- Ig	:	Exposure to com	nbustion products may be a hazard to health.				
Hazar ucts	rdous combustion prod-	:	Carbon oxides Chlorine compou Nitrogen oxides Sulphur compou Sulphur oxides Metal oxides	(NOx)				
Speci ⁿ ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to d				



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	Special or firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.
6. AC	CIDEN	ITAL RELEASE MEAS	SUF	RES	
ti	ve equ	al precautions, protec- ipment and emer- rocedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
E	Environ	mental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, p ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. IS of this SDS provide information regarding tional requirements.
7. HA	NDLIN	G AND STORAGE			
т L	.ocal/T	ng al measures otal ventilation on safe handling	:	CONTROLS/PER Use only with ade Do not get on skir Do not breathe va Do not swallow. Avoid contact with Handle in accorda practice, based of sessment Keep container tig Already sensitised to asthma, allergin should consult the tory irritants or se	n or clothing. apours. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira-



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	ance of contact ne measures	:::	flushing systems place. When using do n Contaminated wo workplace. Wash contamina The effective ope engineering conta appropriate dego	emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. ork clothing should not be allowed out of the ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.		
Stora	ge					
Condi	tions for safe storage	:	 Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulational 			
Mater	ials to avoid	:		tions on storage with other products.		
Packa	aging material	:	Unsuitable mater	ial: 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 / Concentra- tion standard / Permissible con- centration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
cloxacillin	61-72-3	TWA	100 µg/m3 (OEB 2)	Internal
	Further inform	ation: RSEN, DS	SEN	
		Wipe limit	100 µg/100 cm2	Internal
ampicillin	69-53-4	TWA	0.6 mg/m3 (OEB 2)	Internal
	Further inform	ation: RSEN		
Hydroxyaluminum distearate	300-92-5	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
		TWA (Res- pirable par-	1 mg/m3 (Aluminium)	ACGIH



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				ticulate mat- ter)					
Engi	neering measures	:	technologies to less quick conn All engineering design and ope protect product	control airborr ections). controls should rated in accord s, workers, and	controls and manufact the concentrations (e. d be implemented by dance with GMP prin- d the environment. require special conta	g., drip- facility ciples to			
Pers	onal protective equipn	nent							
Fi	biratory protection liter type d protection	:	sure assessme ommended gui	nt demonstrate delines, use re	tilation is not availabl es exposures outside spiratory protection. ganic vapour type				
	aterial	:	: Chemical-resistant gloves						
	protection	:	If the work envi mists or aeroso Wear a faceshi potential for dir aerosols.	ronment or act ls, wear the ap eld or other full ect contact to t	shields or goggles. ivity involves dusty c propriate goggles. I face protection if the he face with dusts, m	ere is a			
	and body protection	•	Work uniform o		al.				
). PHYSIC	CAL AND CHEMICAL F	PROF	PERTIES						
Phys	ical state	:	cream						
Colou	ur	:	off-white						
Odou	ır	:	No data availa	ble					
Odou	ur Threshold	:	No data availa	ble					
Melti	ng point/freezing point	:	No data availa	ble					
	ng point, initial boiling and boiling range	:	No data availa	ble					

Flammability (solid, gas) : No data available

Flammability (liquids)

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

: No data available





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	Flash p	point	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	No data available	
	Evapor	ation rate	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n- I/water	:	Not applicable	
	Vapour	pressure	:	Not applicable	
		/ and / or relative densit ative density	ty :	No data available	
	Den	isity	:	No data available)
	Relativ	e vapour density	:	Not applicable	
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	llar weight	:	No data available)
		e characteristics ticle size	:	< 30 µm	

10. STABILITY AND REACTIVITY

Reactivity	:	
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	None known.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION



ersion .0	Revision Date: 2024/09/28	-	9S Number: 843370-00006	Date of last issue: 2023/12/05 Date of first issue: 2022/08/30
	ormation on likely routes of posure	:	Inhalation Skin contact Ingestion Eye contact	
	t classified based on availa	ble	information.	
Co	omponents:			
	nite mineral oil (petroleum ute oral toxicity): :	LD50 (Rat): > 5,0	00 mg/kg
Ac	ute inhalation toxicity	:	LC50 (Rat): > 5 m Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	ĥ
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute derr
clo	oxacillin:			
Ac	ute oral toxicity	:	LD50 (Rat): 5,000	mg/kg
			LD50 (Mouse): 5,	000 mg/kg
	ute toxicity (other routes of ministration)	:	LD50 (Mouse): 1, Application Route	
			LD50 (Mouse): 91 Application Route	0 0
			LD50 (Mouse): 1,4 Application Route	
			LD50 (Rat): 1,660 Application Route	
			LD50 (Rat): 4,200 Application Route	
am	npicillin:			
Ac	ute oral toxicity	:	LD50 (Rat): 10,00	0 mg/kg
			LD50 (Mouse): 15	,200 mg/kg
	ute toxicity (other routes of ministration)	:	LD50 (Rat): 6,200 Application Route	



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			LD50 (Mouse): 4 Application Route	
	oxyaluminum distea	irate:	Method: OECD T	le): > 2,000 mg/kg Fest Guideline 423 on data from similar materials
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere Method: OECD T	h
-	corrosion/irritation lassified based on ava	ailable	information.	
Com	ponents:			
White	e mineral oil (petrole	eum):		
Spec Resu		:	Rabbit No skin irritation	
	acillin:			
Rema	arks	:	Not classified due	e to lack of data.
Hydr	oxyaluminum distea	rate:		
Speci Metho Rema	od	:	OECD Test Guid	man epidermis (RhE) leline 431 om similar materials
Speci Metho Rema	od	:	OECD Test Guid	man epidermis (RhE) eline 439 om similar materials
Resu	lt	:	No skin irritation	
	ous eye damage/eye lassified based on ava			
Com	ponents:			
White	e mineral oil (petrole	eum):		
Spec Resu			Rabbit No eye irritation	
	acillin:			
Rema	arks	:	Not classified due	e to lack of data.





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Hydroxyaluminum distearate:

Species	: Bovine cornea
Method	: OECD Test Guideline 437
Species Method Remarks	: Based on data from similar materials

Result

: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

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

Components:

White mineral oil (petroleum):

: Buehler Test
: Skin contact
: Guinea pig
: negative

cloxacillin:

Exposure routes	:	Dermal
Assessment	:	Probability or evidence of skin sensitisation in humans
Result	:	positive
Assessment Result	:	Probability of respiratory sensitisation in humans based on animal testing positive

ampicillin:

Exposure routes	:	Inhalation
Result	:	Sensitiser

Hydroxyaluminum distearate:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative
Test Type Exposure routes Species Method Result Remarks	:	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

White mineral oil (petroleum):

SAFETY DATA SHEET



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Genote	oxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative	
Genoto	oxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials 	viv
cloxad	illin:		
Genoto	oxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fre similar substances. 	om
Genoto	oxicity in vivo	 Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fresimilar substances. 	om
ampic	illin:		
Genoto	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Test system: mouse 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: Human lymphocytes Result: negative	
Genoto	oxicity in vivo	: Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative	
Hydro	xyaluminum distea	ate:	
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)	





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п			Method: OECD	Test Guideline 471
			Result: negative Remarks: Based	e d on data from similar materials
				ro mammalian cell gene mutation test Test Guideline 476
				d on data from similar materials
Carci	inogenicity			
Not c	lassified based on ava	ilable	information.	
Com	ponents:			
	e mineral oil (petroleu	um):		
Speci	ies Pouto	:	Rat	
Applic	cation Route sure time	:	Ingestion 24 Months	
Resu	lt	:	negative	
	acillin:			
Rema	arks	:	Not classified du	ue to lack of data.
ampi	cillin:			
Speci	ies	:	Rat	
Appli	cation Route	:	Oral	
Expo	sure time	:	2 Years	
	_	:	750 mg/kg body	
lumo	or Type	:	adrenal, Leukae	mia, breast tumors
Spec		:	Mouse	
	cation Route	:	Oral	
Expo	sure time	:	2 Years	du waight
Tumo	or Type	:	3,000 mg/kg boo Lungs	ay weight
Rema		:	Benign tumor(s)	
Carci ment	nogenicity - Assess-	:	Weight of evider cinogen	nce does not support classification as a ca
-	oductive toxicity lassified based on ava	ilabla	information	
	lassified based on ava ponents:	nable	mormation.	
-	-			
	e mineral oil (petroleu	.	Toot Turney Ora	concretion reproduction to visity at the
Ellec	ts on fertility	:	iest Type: One-	-generation reproduction toxicity study



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Effec ment	ts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development :: Ingestion
n cloxa	acillin:			
	ts on fertility	:		
Effec ment	ts on foetal develop-	:		
ampi	cillin:			
	ts on fertility	:	Test Type: Fertilit Species: Guinea Target Organs: U	
Effec ment	ts on foetal develop-	:		opment oxicity: NOAEL: 250 mg/kg body weight s on foetal development
Hvdr	oxyaluminum disteara	te:		
	ts on fertility	•	Species: Rat Application Route Method: OECD T Result: negative	eneration reproduction toxicity study : Ingestion est Guideline 416 on data from similar materials
Effec ment	ts on foetal develop-	:	Species: Rat Application Route Method: OECD T Result: negative	eneration reproduction toxicity study : Ingestion est Guideline 416 on data from similar materials



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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

White mineral oil (petroleum):

Species	: Rat
LÕAEL	: 160 mg/kg
Application Route	: Ingestion
Species LOAEL Application Route Exposure time	: 90 Days
Species LOAEL Application Route Exposure time Method	: Rat
LÖAEL	: >= 1 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 4 Weeks
Method	: OECD Test Guideline 412

cloxacillin:

Species	:	Rat
LÕAEL	:	7,000 mg/kg
Application Route	:	Intravenous
Exposure time	:	4 Weeks
Species LOAEL Application Route Exposure time Symptoms	:	Hypoglycemia

ampicillin:

Species : LOAEL : Application Route : Exposure time : Symptoms :	Rat 3,000 mg/kg Oral 13 Weeks Diarrhoea
Species:LOAEL:Application Route:Exposure time:Symptoms:	Mouse 2,000 mg/kg Oral 13 Weeks Diarrhoea
Species:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:	

Species

: Mouse





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Expo	cation Route sure time et Organs	: : : : :	2,000 mg/kg Oral 2 yr forestomach Ulceration, Inflan	nmation, fungal infections	
-	ration toxicity lassified based on availa	able	information.		
Expe	rience with human exp	osi	Ire		
	ponents:				
cloxa Inhala	acillin: ation	:	Remarks: May ca	ause sensitisation of susceptible persons.	
Skin	contact	:	Symptoms: Dermatitis Remarks: May irritate skin.		
Eye o	contact	:	Remarks: May in	ritate eyes.	
Inges	stion	:	Symptoms: May cause, Gastrointestinal disturbance, Rash Remarks: May cause sensitisation of susceptible persons.		
ampi	cillin:				
Inhala	ation	:	Symptoms: Asthu Remarks: May ca ing difficulties if in	ause allergy or asthma symptoms or breath-	
Inges	stion	:	Symptoms: skin urticaria	rash, Nausea, Diarrhoea, Vomiting, colitis,	
	OGICAL INFORMATIO	N			
Ecot	oxicity				
Com	ponents:				
White	e mineral oil (petroleun	n):			
Toxic	ity to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l /6 h Fest Guideline 203	
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Tovio	sity to algae/aguatic		NOFC (Decudek	irchnoriolla subcapitata (graan algaa)): 100	



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11			Method: OECD Te	est Guideline 201
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 1,000 mg/l 3 d
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 1,000 mg/l I d
ampic	• /			
	y to fish	:	LC50 (Oryzias lati Exposure time: 96	ipes (Japanese medaka)): > 1,000 mg/l 5 h
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ծ h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): > 100 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	EC50 (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Anabaena Exposure time: 72 Method: OECD Te	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	tor (Acute aquatic tox-	:	1	
icity) Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
			NOEC: 9 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			Test Type: Respir	ation inhibition

Hydroxyaluminum distearate:

Ecotoxicology Assessment



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Chroi	nic aquatic toxicity	:	No toxicity at the	e limit of solubility
II Persi	istence and degradab	oility		
Com	ponents:			
White	e mineral oil (petroleu	um):		
Biode	egradability	:	Result: Not read Biodegradation: Exposure time: 2	
ampi	cillin:			
-	egradability	:	Result: rapidly d Biodegradation: Exposure time: Method: OECD	35 %
Hydr	oxyaluminum distear	ate:		
Biode	egradability	:	Result: Readily Remarks: Based	biodegradable. d on data from similar materials
Bioa	ccumulative potential	I		
Com	ponents:			
cloxa	acillin:			
	ion coefficient: n- nol/water	:	log Pow: 2.44	
	cillin:			
	ion coefficient: n- nol/water	:	log Pow: -2.0 pH: 7	
Hydr	oxyaluminum distear	ate:		
	ion coefficient: n- nol/water	:	log Pow: 15.088 Remarks: Calcu	
	lity in soil ata available			
	rdous to the ozone la	ayer		
Othe	r adverse effects			



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
		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.

14. TRANSPORT INFORMATION

International Regulations

International Regulations		
UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group	:	Not applicable Not applicable Not applicable Not applicable Not applicable
Labels Environmentally hazardous	:	Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft)	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

ger aircraft) IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

Packing instruction (passen- : 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



Cloxacillin / Ampicillin Formulation

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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

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Mineral oil	>=70 - <80	-

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
Mineral oil	-

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2) Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable





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	ance on Prevention	of Organic Solvent Po	bisoning			
Subst	cement Order of the tances) pplicable	e Industrial Safety and	Health Law - Attached table 1 (Dangerous			
	onous and Deleterio pplicable	us Substances Contro	I Law			
viron	Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof Not applicable					
•	Pressure Gas Safet	y Act				
•	osive Control Law					
	el Safety Law egulated as a dangero	ous good				
	ion Law egulated as a dangero	ous good				
Marin	e Pollution and Sea	Disaster Prevention e	tc Law			
Bulk t	ransportation	: Not classified as	noxious liquid substance			
Pack	transportation	: Not classified as	marine pollutant			
Narco Not aj Speci	Narcotics and Psychotropics Control Act 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					
	trial waste					
The c AICS	omponents of this	oroduct are reported in : not determined	the following inventories:			
DSL		: not determined				
IECS	<u>_</u>	: not determined				

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

Further information



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		s of key data used to e the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	Items where changes have been made to the previous version are highlighted in the body of the document by two vertical lines.				
	Date fo	rmat	:	yyyy/mm/dd	
	Full tex ACGIH	xt of other abbreviation	ons :		eshold Limit Values (TLV)

ACGIH / TWA

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

8-hour, time-weighted average

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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





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