according to GB/T 16483 and GB/T 17519



Cloxacillin / Ampicillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/08/09
1.3	2023/09/30	10843366-00004	Date of first issue: 2022/08/30

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Cloxacillin / Ampicillin Formulation				
Manufacturer or supplier's details Company : MSD						
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the ch	em	ical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable				

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	cream off-white No data available
,		n. May cause allergy or asthma symptoms or breathing difficul- . Harmful to aquatic life with long lasting effects.
GHS Classification Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3

GHS label elements

according to GB/T 16483 and GB/T 17519



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Hazar	rd pictograms		
Signa	l word	: Danger	
Hazar	rd statements	H334 May cau difficulties if in H401 Toxic to	
Preca	utionary statements	P272 Contami the workplace P273 Avoid re P280 Wear pr	eathing vapours. nated work clothing should not be allowed out of lease to the environment. otective gloves. spiratory protection.
		P304 + P340 keep comforta P333 + P313 vice/ attention P342 + P311 POISON CEN	f experiencing respiratory symptoms: Call a
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste

Physical and chemical hazards

Not classified based on available information.

Health hazards

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Environmental hazards

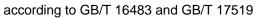
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture





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Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 70 -< 90
cloxacillin	61-72-3	>= 10 -< 20
ampicillin	69-53-4	>= 2.5 -< 10
Hydroxyaluminum distearate	300-92-5	>= 1 -< 10

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.
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	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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 an allergic skin reaction. 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).
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.
FIREFIGHTING MEASURES	
Suitable extinguishing media	: Water spray

5. F

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.

according to GB/T 16483 and GB/T 17519



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	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (N Sulphur compoun Sulphur oxides Metal oxides	JOx)
	ods	c extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so. Evacuate area.	measures that are appropriate to local cir- he surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ighters		Use personal prot	, wear self-contained breathing apparatus. ective equipment.
6. A0	CCIDEN	ITAL RELEASE MEAS	SUR	ES	
	tive equ	al precautions, protec- upment and emer- procedures	:		ective equipment. ng advice (see section 7) and personal pro- recommendations (see section 8).
	Environ	imental 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 e of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regular Sections 13 and 1	absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

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. Do not get on skin or clothing.

according to GB/T 16483 and GB/T 17519



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	practice, based on the results of the workp sessment Keep container tightly closed. Already sensitised individuals, and those s to asthma, allergies, chronic or recurrent r should consult their physician regarding w tory irritants or sensitisers.		n eyes. ance with good industrial hygiene and safety n 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-	
A	voidance of contact	:	None.	
	orage			
C	onditions for safe storage	:	Keep tightly close	abelled containers. d. ice with the particular national regulations.
М	aterials to avoid	:		tions on storage with other products.
Pa	ackaging material	:	Unsuitable materi	al: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	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- ticulate mat- ter)	1 mg/m3 (Aluminium)	ACGIH

according to GB/T 16483 and GB/T 17519



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Engi	neering measures	technologies less quick co All engineerir design and o protect produ	ate engineering controls and manufacturing to control airborne concentrations (e.g., drip- nnections). ng controls should be implemented by facility perated in accordance with GMP principles to icts, workers, and the environment. perations do not require special containment.
Perso	onal protective equip	nent	
Resp Fil Eye/fi	iratory protection Iter type ace protection and body protection	 If adequate la sure assessmonte ommended g Combined pa Wear safety g If the work en mists or aero Wear a faces potential for a aerosols. 	bocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- juidelines, use respiratory protection. Articulates and organic vapour type glasses with side shields or goggles. Invironment or activity involves dusty conditions, isols, wear the appropriate goggles. Schield or other full face protection if there is a direct contact to the face with dusts, mists, or in or laboratory coat.
Hand	protection aterial	: Chemical-res	
Hygie	ene measures	eye flushing s ing place. When using o Contaminate workplace. Wash contan The effective engineering o appropriate o industrial hyg	o chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
Colour	:	off-white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available

according to GB/T 16483 and GB/T 17519

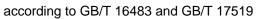


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	Initial boi range	iling point and boiling	:	No data available	
	Flash po	int	:	No data available	
	Evaporat	tion rate	:	Not applicable	
	Flammat	oility (solid, gas)	:	No data available	
	Flammat	pility (liquids)	:	No data available	
	Upper ex flammab	plosion limit / Upper ility limit	:	No data available	
	Lower ex flammab	plosion limit / Lower ility limit	:	No data available	
	Vapour p	oressure	:	Not applicable	
	Relative	vapour density	:	Not applicable	
	Relative	density	:	No data available	
	Density		:	No data available	
	Solubility Wate	r(ies) r solubility	:	No data available	
	Partition octanol/v	coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decomp	osition temperature	:	No data available	
	Viscosity Visco	, sity, kinematic	:	Not applicable	
	Explosiv	e properties	:	Not explosive	
	Oxidizing	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecula	ır weight	:	No data available	
	Particle s	size	:	< 30 µm	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.





/ersion .3	Revision Date: 2023/09/30		S Number: 343366-00004	Date of last issue: 2023/08/09 Date of first issue: 2022/08/30
tions Condi Incom	bility of hazardous reac- tions to avoid patible materials dous decomposition cts	:	None known. None known. None. No hazardous c	lecomposition products are known.
1. TOXIC	OLOGICAL INFORMAT	101	1	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity assified based on availa	ble	information.	
	oonents:			
White	mineral oil (petroleum	ı):		
Acute	oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: 4 Test atmosphere Assessment: The tion toxicity	1 h
Acute	dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	• 2,000 mg/kg e substance or mixture has no acute dermal
cloxa	cillin:			
	oral toxicity	:	LD50 (Rat): 5,00	0 mg/kg
			LD50 (Mouse): 5	5,000 mg/kg
	toxicity (other routes of istration)	:	LD50 (Mouse): 1 Application Rout	
			LD50 (Mouse): 9 Application Rout	
			LD50 (Mouse): 1 Application Rout	,500 mg/kg e: Subcutaneous
			LD50 (Rat): 1,66 Application Rout	

according to GB/T 16483 and GB/T 17519



Cloxacillin / Ampicillin Formulation

rsion B	Revision Date: 2023/09/30		9S Number: 843366-00004	Date of last issue: 2023/08/09 Date of first issue: 2022/08/30
ampi	cillin:			
Acute	oral toxicity	:	LD50 (Rat): 10,00	00 mg/kg
			LD50 (Mouse): 15	5,200 mg/kg
	e toxicity (other routes of histration)	:	LD50 (Rat): 6,200 Application Route	
			LD50 (Mouse): 4, Application Route	
Hydro	oxyaluminum distearat	e:		
Acute	e oral toxicity	:	LD50 (Rat, female Method: OECD T Remarks: Based	
Acute	inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
Skin	corrosion/irritation			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
	e mineral oil (petroleum	ı):		
Speci Resu			Rabbit	
Resu		:	No skin irritation	
		:		
	lt Icillin:	:		to lack of data.
cloxa Rema	lt Icillin:	: : :	No skin irritation	to lack of data.
cloxa Rema Hydro Speci	lt arks oxyaluminum distearat ies		No skin irritation Not classified due reconstructed hur	nan epidermis (RhE)
cloxa Rema Hydro	lt arks oxyaluminum distearat jes od		No skin irritation Not classified due reconstructed hur OECD Test Guide	nan epidermis (RhE)
cloxa Rema Hydro Speci Metho Rema	lt arks oxyaluminum distearat es od arks		No skin irritation Not classified due reconstructed hur OECD Test Guide Based on data fro reconstructed hur	nan epidermis (RhE) eline 431 m similar materials nan epidermis (RhE)
cloxa Rema Hydro Speci Metho Rema	lt arks oxyaluminum distearat es od arks es od	e:	No skin irritation Not classified due reconstructed hur OECD Test Guide Based on data fro reconstructed hur OECD Test Guide	nan epidermis (RhE) eline 431 m similar materials nan epidermis (RhE)

Serious eye damage/eye irritation

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



Cloxacillin / Ampicillin Formulation

ersion 3	Revision Date: 2023/09/30	SDS Number: 10843366-00004	Date of last issue: 2023/08/09 Date of first issue: 2022/08/30
Com	ponents:		
	e mineral oil (petrole	um):	
Speci		: Rabbit	
Resu		: No eye irritation	
cloxa	acillin:		
Rema	arks	: Not classified du	ue to lack of data.
Hydro	oxyaluminum distea	rate:	
Speci		: Bovine cornea	
Metho Rema		: OECD Test Gui	deline 437 rom similar materials
Resu		: No eye irritation	
Resu	it in the second s	. No eye imation	
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
May o	cause an allergic skin	reaction.	
Resp	iratory sensitisation		
-	-	na symptoms or breathing	ng difficulties if inhaled.
Com	ponents:		-
White	e mineral oil (petrole	um):	
Test ⁻	Туре	: Buehler Test	
	sure routes	: Skin contact	
Speci Resu		: Guinea pig : negative	
Resu	it.	. negative	
	acillin:	_	
	sure routes	: Dermal	idence of ekin consitiontion in human
Asses Resu	ssment It	: Probability or ev : positive	vidence of skin sensitisation in humans
		·	and a start and the start of the
Asses	ssment	: Probability of re animal testing	spiratory sensitisation in humans based
Resu	lt	: positive	
ampi	cillin:		
-	sure routes	: Inhalation	
Resu		: Sensitiser	
Hydro	oxyaluminum distea	rate:	
Test 7	-		de assay (LLNA)
	sure routes	: Skin contact	

: Skin contact

Exposure routes

according to GB/T 16483 and GB/T 17519



ersion .3	Revision Date: 2023/09/30	SDS Number: 10843366-0000	Date of last issue: 2023/08/09 Date of first issue: 2022/08/30
Speci Metho Resul Rema	od It	: negative	: Guideline 429 ata from similar materials
	n cell mutagenicity lassified based on av	vailable information.	
Com	ponents:		
White	e mineral oil (petrol	eum):	
Geno	toxicity in vitro	: Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
Geno	toxicity in vivo	cytogenetic Species: M Application Method: OE Result: neg	ouse Route: Intraperitoneal injection ECD Test Guideline 474
cloxa	cillin:		
Geno	toxicity in vitro	Result: neg	nformation given is based on data obtained from
Geno	toxicity in vivo	Species: M Result: neg	ative nformation given is based on data obtained from
ampi	cillin:		
-	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			In vitro mammalian cell gene mutation test n: mouse lymphoma cells ative
			sister chromatid exchange assay n: Chinese hamster ovary cells ative
			Chromosomal aberration n: Chinese hamster ovary cells ative

according to GB/T 16483 and GB/T 17519



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		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
Gen	otoxicity in vivo	: Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative
Hvd	roxyaluminum distea	rate:
-	otoxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
Car	cinogenicity	
	classified based on ava	ilable information.
<u>Con</u>	nponents:	
Whi	te mineral oil (petrole	um):
Spe		: Rat
	lication Route	: Ingestion
Exp Res	osure time ult	: 24 Months : negative
clox	acillin:	
	narks	: Not classified due to lack of data.
amp	bicillin:	
Spe		: Rat
	lication Route	: Oral
Exp	osure time	: 2 Years
Tum	or Type	750 mg/kg body weightadrenal, Leukaemia, breast tumors
Spe	cies	: Mouse
Арр	lication Route	: Oral
Exp	osure time	: 2 Years
Tum	or Type	: 3,000 mg/kg body weight : Lungs
Rem	harks	: Benign tumor(s)
Card	cinogenicity - Assess-	: Weight of evidence does not support classification as a car-

according to GB/T 16483 and GB/T 17519



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	ment			cinogen	
	-	ductive toxicity ssified based on availa	able	information.	
	Compo	onents:			
	White	mineral oil (petroleur	n):		
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Skin contact
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
	cloxac	illin:			
		on fertility	:		
	Effects ment	on foetal develop-	:	Result: No malfor Test Type: Develo Species: Rabbit Application Route Developmental To	: Oral oxicity: NOAEL: 100 mg/kg body weight mations were observed. opment
	ampici	llin:			
	Effects	on fertility	:	Test Type: Fertilit Species: Guinea Target Organs: U	
	Effects ment	on foetal develop-	:		opment oxicity: NOAEL: 250 mg/kg body weight on foetal development

Hydroxyaluminum distearate:

according to GB/T 16483 and GB/T 17519



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Effects	on fertility	Species: Rat Application Route Method: OECD T Result: negative	generation reproduction toxicity study e: Ingestion est Guideline 416 on data from similar materials
Effects ment	on foetal develop-	Species: Rat Application Route Method: OECD T Result: negative	generation reproduction toxicity study e: Ingestion fest Guideline 416 on data from similar materials
	- single exposure ssified based on availa	able information.	
STOT	- repeated exposure		

Not classified based on available information.

Repeated dose toxicity

Components:

White mineral oil (petroleum):

	u /	
Species LOAEL Application Route Exposure time		Rat 160 mg/kg Ingestion 90 Days
Species LOAEL Application Route Exposure time Method		Rat >= 1 mg/l inhalation (dust/mist/fume) 4 Weeks OECD Test Guideline 412
cloxacillin: Species LOAEL Application Route Exposure time Symptoms		Rat 7,000 mg/kg Intravenous 4 Weeks Hypoglycemia
ampicillin: Species LOAEL Application Route Exposure time		Rat 3,000 mg/kg Oral 13 Weeks
Symptoms	•	Diarrhoea

according to GB/T 16483 and GB/T 17519



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LÖ/ App Exp Syn	ecies AEL dication Route osure time nptoms ecies	: Mouse : 2,000 mg/kg : Oral : 13 Weeks : Diarrhoea : Rat				
LÖ/ App Exp Tar		: 750 mg/kg : Oral : 2 yr : Thyroid, foresto	750 mg/kg Oral			
LÖ/ App Exp Tar	ecies AEL olication Route osure time get Organs nptoms	: Mouse : 2,000 mg/kg : Oral : 2 yr : forestomach : Ulceration, Infla	2,000 mg/kg Oral 2 yr			
•	biration toxicity classified based on avai	ilable information.				
Exp	perience with human ex	cposure				
<u>Co</u>	nponents:					
Inha	xacillin: alation n contact	: Remarks: May : Symptoms: De	cause sensitisation of susceptible persons.			
Eye	e contact estion	Remarks: May : Remarks: May : Symptoms: Ma	irritate skin.			
am	picillin:					

Inhalation	:	Symptoms: Asthma, Hay fever
		Remarks: May cause allergy or asthma symptoms or breath-
		ing difficulties if inhaled.
Ingestion	:	Symptoms: skin rash, Nausea, Diarrhoea, Vomiting, colitis, urticaria

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

White mineral oil (petroleum):

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h

:

according to GB/T 16483 and GB/T 17519



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				Method: OECD Te	est Guideline 203
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 1,000 mg/l 3 d
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 1,000 mg/l d
	ampici				
	Toxicity	r to fish	:	LC50 (Oryzias lati Exposure time: 96	pes (Japanese medaka)): > 1,000 mg/l i h
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l s h
	Toxicity plants	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 Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1	
	icity) Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition

according to GB/T 16483 and GB/T 17519



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			NOEC: 9 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	
Hydi	roxyaluminum distear	ate:		
	Ecotoxicology Assessment Chronic aquatic toxicity :		No toxicity at the	limit of solubility
Pers	istence and degradab	oility		
Com	ponents:			
	e mineral oil (petroleu egradability	um): :	Result: Not readil Biodegradation: 3 Exposure time: 28	31 %
-	icillin: egradability	:	Result: rapidly de Biodegradation: 3 Exposure time: 28 Method: OECD T	35 %
Hydi	roxyaluminum distear	ate:		
Biod	egradability	:	Result: Readily bi Remarks: Based	iodegradable. on data from similar materials
Bioa	ccumulative potential	I		
Com	ponents:			
Parti	acillin: tion coefficient: n- nol/water	:	log Pow: 2.44	
Parti	icillin: tion coefficient: n- nol/water	:	log Pow: -2.0 pH: 7	
Hvdi	roxyaluminum distear	ate:		
Parti	tion coefficient: n- nol/water	:	log Pow: 15.088 Remarks: Calcula	ation

according to GB/T 16483 and GB/T 17519



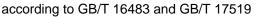
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	lity in soil ata available			
	r adverse effects ata available			
13. DISPC	SAL CONSIDERATIO	IS		
Dispo	osal methods			
Wast	e from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.		
Conta	Contaminated packaging : Empty containers should be taken to an approved wa dling site for recycling or disposal. If not otherwise specified: Dispose of as unused prod			
14. TRAN	SPORT INFORMATIO			
Interi	national Regulations			
Prope Class Subs	umber er shipping name s idiary risk ing group	 Not applicable 		
UN/IE Prope Class Subs Packi Label	er shipping name s idiary risk ing group	 Not applicable 		

aircraft) Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code UN number Proper shipping name	:	Not applicable Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.





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National Regulations

GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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	:	2023/09/30		
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/		
Date format	:	yyyy/mm/dd		
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



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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

Disclaimer

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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