

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	4267350-00014	Date of first issue: 2019/05/09

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Cloxacillin (with Peanut Oil) Formulation
Supplier's company name, ac Company name of supplier		ess and phone number 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 chemical product Respiratory sensitisation : Category 1							
Skin sensitisation	:	Category 1					
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.					
Precautionary statements :		Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. P284 Wear respiratory protection.					



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Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
cloxacillin	61-72-3	>= 1 - < 10	-

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	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	:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul-



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		d ion of first-aiders o physician	:	other respiratory of tive airways dysfu First Aid responde and use the recor- when the potentia	The may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- inction syndrome). The should pay attention to self-protection, nmended personal protective equipment of exposure exists (see section 8). cally and supportively.	
5. F	IREFIGI	HTING MEASURES				
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
	Specific fighting	c hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (I Sulphur compoun	NOx)	
	Specific ods	c extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to c so. Evacuate area.		
	Special for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. rective equipment.	
6. A	CCIDEN	NTAL RELEASE MEAS	SUF	RES		
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
	Enviror	nmental 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	



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	nods and materials for ainment and cleaning up	:	For large spills, p ment to keep man be pumped, store Clean up remaini 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- rerial from spreading. If dyked material can e recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HAND	LING AND STORAGE			
Han	dling			
Tech	nnical measures	:		measures under EXPOSURE SONAL PROTECTION section.
Loca	al/Total ventilation	:		equate ventilation.
	ce on safe handling	:	practice, based o sessment Keep container tig Already sensitise to asthma, allergi should consult the tory irritants or se Take care to prevent environment.	ist or vapours. h 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-
	dance of contact ene measures		flushing systems place. When using do no Contaminated wo workplace. Wash contaminat The effective ope engineering contr appropriate dego	emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ork clothing should not be allowed out of the red clothing before re-use. ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.
Stor	age			
Cond	ditions for safe storage	:	Keep tightly close	labelled containers. ed. nce with the particular national regulations.



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Mater	ials to avoid	: Do not store v Strong oxidizi		ng product types:					
Packa	aging material	: Unsuitable ma	aterial: None kr	nown.					
				each component in th	ne work en				
Comp	ponents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis				
cloxad	cillin	61-72-3	TWA	100 µg/m3 (OEB	Internal				
		2) 2) Further information: RSEN, DSEN							
			Wipe limit	100 µg/100 cm2	Internal				
Engir	neering measures	technologies less quick cor All engineerin design and op protect produ	to control airbo nnections). Ig controls shou perated in acco cts, workers, au	controls and manufact rne concentrations (e. uld be implemented by rdance with GMP prin nd the environment. t require special conta	g., drip- r facility ciples to				
Perso	onal protective equip	oment							
	ratory protection ter type	sure assessm ommended g	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type						
Hand	protection		Chemical-resistant gloves						
Eye protection :		If the work en mists or aeros	vironment or a sols, wear the a	le shields or goggles. ctivity involves dusty c appropriate goggles. ull face protection if the					
				the face with dusts, m					

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	suspension
Colour	:	light yellow
Odour	:	characteristic



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Oc	lour Threshold	:	No data available)
Me	elting point/freezing point	:	No data available)
	Boiling point, initial boiling point and boiling range		No data available)
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	No data available)
Lo	wer explosion limit and uppe Upper explosion limit / Up- per flammability limit			
	Lower explosion limit / Lower flammability limit	:	No data available	
Fla	ash point	:	No data available	
De	composition temperature	:	No data available	
рH		:	No data available	
Ev	aporation rate	:	No data available)
Au	to-ignition temperature	:	No data available)
Vis	scosity Viscosity, kinematic	:	No data available)
So	lubility(ies) Water solubility	:	insoluble	
	rtition coefficient: n- tanol/water	:	Not applicable	
Va	pour pressure	:	No data available	
De	nsity and / or relative densit Relative density	ty :	No data available)
	Density	:	No data available)
Re	lative vapour density	:	No data available)
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance of	r mixture is not classified as oxidizing.
Мс	blecular weight	:	No data available	



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	cle characteristics article size	:	Not applicable	
). STAB		,		
Read Cher Poss tions Cond Incor	ctivity nical stability ibility of hazardous reac- ditions to avoid npatible materials ardous decomposition	:	Stable under no Can react with None known. Oxidizing agent	s a reactivity hazard. ormal conditions. strong oxidizing agents. s decomposition products are known.
	COLOGICAL INFORMAT mation on likely routes of sure	:	Inhalation Skin contact Ingestion	
			Eye contact	
Not o <u>Com</u> cloxa	e toxicity classified based on availa <u>ponents:</u> acillin:	ble i	nformation.	00 mg/kg
Not o <u>Com</u> cloxa	classified based on availa ponents:	ble i :		
Not c <u>Com</u> cloxa Acute	classified based on availa ponents: acillin:	ble i :	nformation. LD50 (Rat): 5,00 LD50 (Mouse): 5	5,000 mg/kg
Not c <u>Com</u> cloxa Acute	classified based on availa ponents: acillin: e oral toxicity e toxicity (other routes of	ble i :	nformation. LD50 (Rat): 5,00 LD50 (Mouse): 5	5,000 mg/kg I,117 mg/kg e: Intramuscular 916 mg/kg
Not c <u>Com</u> cloxa Acute	classified based on availa ponents: acillin: e oral toxicity e toxicity (other routes of	ble i	nformation. LD50 (Rat): 5,00 LD50 (Mouse): 5 LD50 (Mouse): 5 Application Rout LD50 (Mouse): 5 Application Rout	5,000 mg/kg I,117 mg/kg re: Intramuscular 916 mg/kg re: Intravenous
Not c <u>Com</u> cloxa Acute	classified based on availa ponents: acillin: e oral toxicity e toxicity (other routes of	ble i	nformation. LD50 (Rat): 5,00 LD50 (Mouse): 5 LD50 (Mouse): 5 Application Rout LD50 (Mouse): 5 Application Rout	5,000 mg/kg I,117 mg/kg ee: Intramuscular 216 mg/kg ee: Intravenous I,500 mg/kg ee: Subcutaneous 50 mg/kg

Not classified based on available information.



ersion D	Revision Date: 2024/09/28	SDS Number: 4267350-00014	Date of last issue: 2024/04/06 Date of first issue: 2019/05/09		
Com	oonents:				
cloxacillin: Remarks		: Not classified d	lue to lack of data.		
••					
	us eye damage/eye				
_	assified based on av	ailable information.			
Com	oonents:				
	cillin:				
Rema	arks	: Not classified d	lue to lack of data.		
Resp	iratory or skin sens	itisation			
-	sensitisation cause an allergic skin	reaction.			
-	iratory sensitisatior				
-	-		ing difficulties if inhaled.		
<u>Com</u>	oonents:				
cloxa	cillin:				
Expo	sure routes	: Dermal			
Asses Resu	ssment	Probability or evidence of skin sensitisation in humanspositive			
In Cour					
Asses	ssment	: Probability of re animal testing	espiratory sensitisation in humans based or		
Resu	lt	: positive			
Germ	cell mutagenicity				
Not c	lassified based on av	ailable information.			
<u>Com</u>	oonents:				
cloxa	cillin:				
Geno	toxicity in vitro		terial reverse mutation assay (AMES)		
		Result: negativ Remarks: Infor similar substan	mation given is based on data obtained fro		
Geno	toxicity in vivo	: Test Type: Mici			
		Species: Mouse Result: negative	e		
		Remarks: Inform	mation given is based on data obtained fro		
11		similar substan	Ces.		

Carcinogenicity

Not classified based on available information.



ersion .0	Revision Date: 2024/09/28		0S Number: 67350-00014	Date of last issue: 2024/04/06 Date of first issue: 2019/05/09
<u>Com</u> r	oonents:			
cloxa Rema		:	Not classified du	e to lack of data.
Not cl	oductive toxicity assified based on ava	ilable	information.	
	oonents:			
cloxa Effect	cillin: s on fertility	: Test Type: Multi-generation study Species: Rat Application Route: Oral Fertility: NOAEL: 500 mg/kg body weight Result: No effects on fertility, No effects on reproduc rameters		e: Oral : 500 mg/kg body weight
Effects on foetal develop ment		:		
			Developmental	elopment e: Intramuscular Foxicity: NOAEL: 250 mg/kg body weight ts on foetal development

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

cloxacillin:

:	Rat
:	7,000 mg/kg
:	Intravenous
:	4 Weeks
:	Hypoglycemia

Aspiration toxicity

Not classified based on available information.



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Evno	Experience with human expective				

Experience with human exposure

Components:		
cloxacillin: Inhalation	:	Remarks: May cause sensitisation of susceptible persons.
Skin contact	:	Symptoms: Dermatitis Remarks: May irritate skin.
Eye contact	:	Remarks: May irritate eyes.
Ingestion	:	Symptoms: May cause, Gastrointestinal disturbance, Rash Remarks: May cause sensitisation of susceptible persons.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data available	
Persistence and degradability No data available	
Bioaccumulative potential	
Components:	
cloxacillin: Partition coefficient: n- : octanol/water	log Pow: 2.44
Mobility in soil No data available	
Hazardous to the ozone layer Not applicable	
Other adverse effects No data available	
13. DISPOSAL CONSIDERATIONS	
Disposal methods Waste from residues :	Dispose of in accordance with local regu

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.



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	:	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.



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Not a Asses	nical Substance Cor pplicable for Specified ssment Chemical Sub strial Safety and Hea	d Chemical Substance, stance.	Monitoring Chemical Substance and Priority
	Iful Substances Prol pplicable	nibited from Manufact	ure
Harm		uired Permission for	Manufacture
	tances Prevented Fi	om Impairment of He	alth
on Ex	Ilar concerning Infor xisting Chemicals ha pplicable		having Mutagenicity - Annex 2: Information
on No	Ilar concerning Infor otified Substances h pplicable		having Mutagenicity - Annex 1: Information
Subs	tances Subject to be	e Notified Names	
	tances Subject to be	e Indicated Names	
	and Eye Damage Su pplicable	bstances for PPE Rec	quirements (ISHL MO Art. 594-2)
tions		s (Article 577-2 of the	Occupational Health and Safety Regula-
Ordir		of Hazards Due to Sp	pecified Chemical Substances

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable



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viron			of Specific Chemical Substances in the E the Management Thereof
-	Pressure Gas Safet	y Act	
Explo	psive Control Law		
	el Safety Law egulated as a dangero	ous good	
	ion Law egulated as a dangere	ous good	
Marin	e Pollution and Sea	Disaster Prevention	etc Law
Bulk t	ransportation	: Noxious liquid	substance(Category Y)
Pack	transportation	: Not classified a	s marine pollutant
Narco Not aj Speci	pplicable	aw Material (Export / In	nport Permission) xport / Import permission)
	e Disposal and Pub trial waste	lic Cleansing Law	
The c AICS	components of this	product are reported i : not determined	n the following inventories:
DSL		: not determined	
IECS	C	: not determined	

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



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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

JP / EN