according to GB/T 16483 and GB/T 17519



Cefquinome Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Cefquinome Formulation			
Other means of identification	:	Cobactan 2.5% Injection (A008163)			
Manufacturer or supplier's d	etai	ils			
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 chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	suspension off-white No data available		
Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if in- haled. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.				
GHS Classification				
Skin corrosion/irritation	:	Category 3		
Respiratory sensitisation	:	Category 1		
Short-term (acute) aquatic hazard	:	Category 1		
Long-term (chronic) aquatic hazard	:	Category 2		

GHS label elements

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Haz	zard pictograms	:	
Sig	nal word	: Danger	
Haz	zard statements	H334 Ma difficulties H400 Ver	uses mild skin irritation. y cause allergy or asthma symptoms or breathing s if inhaled. y toxic to aquatic life. kic to aquatic life with long lasting effects.
Pre	cautionary statements	P273 Avo	on: bid breathing mist or vapours. bid release to the environment. ar respiratory protection.
		keep com P332 + P tion. P342 + P POISON P391 Col	 340 IF INHALED: Remove person to fresh air and nfortable for breathing. 313 If skin irritation occurs: Get medical advice/ atten- 311 If experiencing respiratory symptoms: Call a CENTER/ doctor. lect spillage.
		Disposal P501 Dis disposal	pose of contents/ container to an approved waste

Physical and chemical hazards

Not classified based on available information.

Health hazards

Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Environmental hazards

Very toxic to aquatic life. Toxic 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

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cefquinome	118443-89-3	>= 2.5 -< 10

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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 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. Causes mild skin irritation. Most important symptoms : and effects, both acute and May cause allergy or asthma symptoms or breathing difficulties if inhaled. delayed Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive 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). Treat symptomatically and supportively. Notes to physician : **5. FIREFIGHTING MEASURES** Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Unsuitable extinguishing None known. media Specific hazards during fire-Exposure to combustion products may be a hazard to health. fighting Hazardous combustion prod- : Carbon oxides Nitrogen oxides (NOx) ucts Sulphur oxides Specific extinguishing meth-Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. ods

Use water spray to cool unopened containers.



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			Remove undama so. Evacuate area.	aged containers from fire area if it is safe to d
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. atective equipment.
3. ACCIDI	ENTAL RELEASE MEA	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	ptective equipment. Iling advice (see section 7) and personal pro- it recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreadin barriers). Retain and dispo	eakage or spillage if safe to do so. Ig over a wide area (e.g. by containment or c se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate containen 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- lations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDL	ING AND STORAGE			
Hand	lling			
Task			о г	

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
-		Do not breathe mist or vapours.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as-
		sessment
11		Keep container tightly closed.

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Avo	Avoidance of contact		 Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease should consult their physician regarding working with respiratory irritants or sensitisers. Take care to prevent spills, waste and minimize release to t environment. Oxidizing agents 			
Sto	rage					
	nditions for safe storage	:	Keep tightly close Store in accordan	ce with the particular national regulations.		
Mat	erials to avoid	:	Do not store with Strong oxidizing a	the following product types: agents		
Pac	kaging material	:	Unsuitable materi	al: None known.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

		•				
Components		CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis	
			exposure)	concentration		
Cefquinome		118443-89-3	TWA	2000 µg/m3 (OEB 1)	Internal	
		Further informa	ation: RSEN			
Engineering measures	:	technologies t less quick con All engineering design and op protect produc	o control airborn nections). g controls should erated in accord cts, workers, and	controls and manufact the concentrations (e.g d be implemented by dance with GMP princ d the environment. require special contai	g., drip- facility siples to	
Personal protective equipme	ent					
Respiratory protection :		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.				
Filter type Eye/face protection	:	Particulates type Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.				
Skin and body protection Hand protection	:	Work uniform	or laboratory co	at.		
Material	:	Chemical-resi	stant gloves			



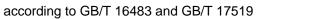
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Hygie	ene measures	eye flushing s ing place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	off-white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available





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	Partition coefficient: n- octanol/water		Not applicable	le
	uto-ignition temperature) :	No data avail	lable
D	ecomposition temperate	ure :	No data avail	lable
V	′iscosity Viscosity, kinematic	:	No data avail	lable
E	xplosive properties	:	Not explosive	e
C	Dxidizing properties	:	The substand	ce or mixture is not classified as oxidizing.
N	Iolecular weight	:	No data avail	lable
	Particle characteristics Particle size	:	Not applicabl	le

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation
	Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Components:

Cefquinome:		
Acute oral toxicity	:	LD50 (Mouse): > 5,000 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available



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Skin	corrosion/irritation		

Causes mild skin irritation.

Components:

Cefquinome: Result

: Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Cefquinome:

Result

: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

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

Components:

Cefquinome:

Exposure routes	:	Inhalation
Result	:	May cause sensitisation by inhalation.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Cefquinome:

Assessment

: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

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Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Inhalation	:	Symptoms: anaphylaxis, bronchospasm, Cough, respiratory tract irritation, Rash, rhinitis, runny nose, sneezing Remarks: May produce an allergic reaction.
Skin contact	:	Remarks: May irritate skin.
Eye contact	:	May produce an allergic reaction. Remarks: May irritate eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Cefquinome:

Cerquinome:		
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 500 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 86 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 37 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Anabaena flos-aquae (cyanobacterium)): 0.041 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae (cyanobacterium)): 0.014 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox-	:	10
icity) M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50: > 1,000 mg/l

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				e: 3 h spiration inhibition D Test Guideline 209
Persi	stence and degradabi	lity		
Com	ponents:			
Cefq	uinome:			
Biode	egradability	:	Biodegradation Exposure time	
Stabi	lity in water	:	Hydrolysis: > 9 Method: FDA 3	
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Cefq	uinome:			
	ion coefficient: n- ol/water	:	log Pow: -2.01	
Mobi	lity in soil			
Com	ponents:			
Cefq	uinome:			
Distri		:	log Koc: 2.76	
	r adverse effects ata available			
13. DISPC	SAL CONSIDERATIO	NS		
-	osal methods e from residues	:	Do not dispose	e of waste into sewer.

Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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

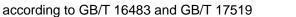
UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Cefquinome)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
1 11 3		(Cefquinome)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
1 11 3		N.O.S.
		(Cefquinome)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268		
UN number	: UN 308	2
Proper shipping name	N.O.S.	ONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Class	: 9`.	,
Packing group	: 111	
Labels	: 9	
Marine pollutant	: no	





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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardou	us Chemicals	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
Identification of Major 1 18218)	Hazard Installations for Hazardou	us C	Chemicals (GB : Not listed
Hazardous Chemicals SAWS	for Priority Management under	:	Not listed
Regulations on Labo	ur Protection in Workplaces w	here	e Toxic Substances are Used
Catalogue of Highly To	•	:	Not listed
Regulation of Environ and Export of Toxic (irst	Import of Chemicals and the Import
China Severely Restric and Export	cted Toxic Chemicals for Import	:	Not listed
Regulation on the Ad	Iministration of Precursor Che	mic	als
-	cation of Precursor Chemicals	:	
Yangtze River Protec	tion Law		
This product does not	contain any dangerous chemical	s pr	ohibited for inland river transport.
The components of t	his product are reported in the	fol	lowing inventories:
AICS	: not determined		
DSL	: not determined		
IECSC	: not determined		

16. OTHER INFORMATION



according to GB/T 16483 and GB/T 17519

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Revision Date	:	2024/09/28
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/

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 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



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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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