

# **Cefquinome Formulation**

Ver 4.12	sion 2	Revision Date: 28.09.2024		S Number: 965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Sec	ction 1: I	dentification			
	Product identifier		:	Cefquinome For	mulation
Other means of identifica- tion		:	Cobactan 2.5% I	njection (A008163)	
	Recom	mended use of the cl	nem	ical and restriction	ons on use
	Recom	mended use	:	Veterinary produ	ct
	Restric	tions on use	:	Not applicable	
	Manufa	acturer or supplier's d	letai	ils	
	Compa	ny	:	MSD	
	Addres	S	:	50 Tuas West Dr Singapore - Sing	-
	Teleph	one	:	+1-908-740-4000	0
	Emerge	ency telephone number	· :	65 6697 2111 (2	4/7/365)
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com

### Section 2: Hazard identification

Hazard pictograms

### Classification of the substance or mixture

Respiratory sensitisation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2

## GHS Label elements, including precautionary statements

Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.





Version 4.12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Preca	autionary statements	P273 Avoid re	reathing mist or vapours. elease to the environment. espiratory protection.
		keep comforta	
		<b>Disposal:</b> P501 Dispose disposal plan	e of contents/ container to an approved waste t.

## Other hazards which do not result in classification

None known.

### Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
	-	

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

#### Section 4: First-aid measures

Description of necessary 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 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.		



# **Cefquinome Formulation**

Version 4.12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014

Most important symptoms and effects, both acute and delayed			
Risks	:	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).	
Indication of any immediate medical attention and special treatment needed			
Treatment	:	Treat symptomatically and supportively.	

### Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Unsuitable extinguishing media	:	None known.		
Special hazards arising from	n th	ne substance or mixture		
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.		
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides		
Special protective actions for fire-fighters				
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
Specific extinguishing meth- ods	:	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 do so. Evacuate area.		

### Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Follow safe handling advice (see section 7) and persor tective equipment recommendations (see section 8).
---



Version 4.12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
	ental precautions onmental precautions	Prevent spread barriers). Retain and disp	leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or oil pose of contaminated wash water. s should be advised if significant spillages
	<b>Methods and materials for containm</b> Methods for cleaning up :		<b>ng up</b> ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

## Section 7: Handling and storage

Precautions for safe 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. 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
	Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment,



Version 4.12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
		industrial hyg	egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
Cond	litions for safe storage	e, including any in	compatibilities
	itions for safe storage rials to avoid	Keep tightly of Store in acco	rdance with the particular national regulations. with the following product types:

### Section 8: Exposure controls/personal protection

### **Control parameters**

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cefquinome	118443-89-3	TWA	2000 µg/m3 (OEB 1)	Internal
	Further information: RSEN			

Appropriate engineering : control measures	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Individual protection measure	s, such as personal protective equipment (PPE)
Eye/face protection :	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 protection :	Work uniform or laboratory coat.
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 : Hand protection	Particulates type
Material	Chemical-resistant gloves

#### **Section 9: Physical and chemical properties**

Appearance

: suspension



# **Cefquinome Formulation**

			965-00027	Date of first issue: 04.11.2014
Colour		:	off-white	
Odour		:	No data available	
	Threshold		No data available	
pН			No data available	
	g point/freezing point		No data available	
	poiling point and boiling	:	No data available	
Flash (	point	:	No data available	9
Evapo	ration rate	:	No data available	9
Flamm	nability (solid, gas)	:	Not applicable	
Flamm	nability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	
Vapou	r pressure	:	No data available	9
Relativ	ve vapour density	:	No data available	9
Relativ	ve density	:	No data available	9
Densit	У	:	No data available	9
	lity(ies) ter solubility	:	No data available	9
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data available	9
Decon	nposition temperature	:	No data available	9
Viscos Vis	ity cosity, kinematic	:	No data available	9
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.



# **Cefquinome Formulation**

ersion .12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Moleo	cular weight	: No data avail	able
	cle characteristics cle size	: Not applicable	e
ection 1	0: Stability and reactiv	ity	
Possi tions Cond Incon	nical stability ibility of hazardous reac- litions to avoid npatible materials rdous decomposition	<ul> <li>Stable under</li> <li>Can react with</li> <li>None known.</li> <li>Oxidizing age</li> </ul>	as a reactivity hazard. normal conditions. h strong oxidizing agents. ents s decomposition products are known.
ection 1	1: Toxicological inform	nation	
	nation on likely routes of		
expos	sure	Skin contact Ingestion Eye contact	
Acut	sure <b>e toxicity</b> lassified based on availa	Ingestion Eye contact	
Acute Not c	e toxicity	Ingestion Eye contact	
Acute Not c <u>Com</u>	<b>e toxicity</b> lassified based on availa	Ingestion Eye contact able information.	: > 5,000 mg/kg
Acute Not c <u>Com</u> Cefq Acute	e toxicity lassified based on availa ponents: uinome:	Ingestion Eye contact able information.	
Acute Not c <u>Com</u> Cefq Acute	e toxicity lassified based on availa ponents: uinome: e oral toxicity	Ingestion Eye contact able information. : LD50 (Mouse)	data available
Acute Not c Com Cefq Acute Acute Acute Skin Not c	e toxicity lassified based on availa <u>ponents:</u> uinome: e oral toxicity e inhalation toxicity e dermal toxicity corrosion/irritation lassified based on availa	Ingestion Eye contact able information. : LD50 (Mouse) : Remarks: No o : Remarks: No o	data available
Acute Not c Com Cefq Acute Acute Acute Skin Not c <u>Com</u>	e toxicity lassified based on availa ponents: uinome: e oral toxicity e inhalation toxicity e dermal toxicity corrosion/irritation lassified based on availa ponents:	Ingestion Eye contact able information. : LD50 (Mouse) : Remarks: No o : Remarks: No o	data available
Acute Not c Com Cefq Acute Acute Acute Skin Not c <u>Com</u>	e toxicity lassified based on availa ponents: uinome: e oral toxicity e inhalation toxicity e dermal toxicity corrosion/irritation lassified based on availa ponents: uinome:	Ingestion Eye contact able information. : LD50 (Mouse) : Remarks: No o : Remarks: No o	data available data available
Acute Not c Com Cefq Acute Acute Skin Not c <u>Com</u> Resu	e toxicity lassified based on availa ponents: uinome: e oral toxicity e inhalation toxicity e dermal toxicity corrosion/irritation lassified based on availa ponents: uinome:	Ingestion Eye contact able information. : LD50 (Mouse) : Remarks: No o : Remarks: No o able information. : Irritating to ski	data available data available
Acute Not c Com Cefq Acute Acute Acute Skin Not c Cefq Resu Serio Not c	e toxicity lassified based on availa ponents: uinome: e oral toxicity e inhalation toxicity e dermal toxicity corrosion/irritation lassified based on availa ponents: uinome: It	Ingestion Eye contact able information. : LD50 (Mouse) : Remarks: No o : Remarks: No o able information. : Irritating to ski	data available data available



# **Cefquinome Formulation**

rsion 2	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Resp	iratory or skin sens	itisation	
-	sensitisation lassified based on av	ailable information.	
Resp	iratory sensitisation	า	
		ma symptoms or bre	athing difficulties if inhaled.
Com	ponents:		
-	uinome:		
Expo Resu	sure routes It	: Inhalation : May cause	sensitisation by inhalation.
	n cell mutagenicity lassified based on av	ailable information.	
	<b>inogenicity</b> lassified based on av	ailable information.	
-	oductive toxicity lassified based on av	ailable information.	
	<b>F - single exposure</b> lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Cefq	uinome:		
Asse	ssment	: May cause	respiratory irritation.
	<b>F - repeated exposu</b> lassified based on av		
•	r <b>ation toxicity</b> lassified based on av	ailable information.	
		exposure	
	rience with human	-	
Expe	rience with human o ponents:		
Expe <u>Com</u>			
Expe <u>Com</u>	ponents: uinome:	tract irritatio	anaphylaxis, bronchospasm, Cough, respirat n, Rash, rhinitis, runny nose, sneezing lay produce an allergic reaction
Expe <u>Com</u> Cefq Inhala	ponents: uinome:	tract irritatio Remarks: N : Remarks: N	



4.12 28.09.2024 27965-00027 Date of first issue: 04.11.2014	Version 4.12	Revision Date: 28.09.2024	SDS Number: 27965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
---	-----------------	---------------------------	-------------------------	---

## Section 12: Ecological information

Toxicity		
Components:		
<b>Cefquinome:</b> 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	:	1
toxicity) Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC: 295.3 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Persistence and degradabili	ity	
Components:		

Cefquinome:



# **Cefquinome Formulation**

Version 4.12	Revision Date: 28.09.2024		DS Number: 965-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Biode	egradability	:	Result: not rapic Biodegradation: Exposure time: 3 Method: OECD	40 %
Stabi	lity in water	:	Hydrolysis: > 90 Method: FDA 3.	
Bioa	ccumulative potential			
Com	ponents:			
Cefq	uinome:			
Partit	ion coefficient: n- ol/water	:	log Pow: -2.01	
Mobi	lity in soil			
Com	ponents:			
Cefq	uinome:			
	bution among environ- al compartments	:	log Koc: 2.76	
	<b>r adverse effects</b> ata available			
Section 1	3: Disposal considera	tion	S	
Disp	osal methods			
-	e from residues	:		of waste into sewer.
Conta	aminated packaging	:	Empty container dling site for rec	cordance with local regulations. is should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
Section 1	4: Transport informati	on		
Interi	national Regulations			
UNR	TDG			
UN n	umber	:	UN 3082	
UN p	roper shipping name	:	ENVIRONMENT N.O.S. (Cefquinome)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Trans	sport hazard class(es)	:	9	
Packi	ing group	:	III	
Label	S onmontal bazards	÷	9	

: yes

Environmental hazards

IATA-DGR

UN/ID No.



Version 4.12	Revision Date: 28.09.2024		Number: 5-00027	Date of last issue: 06.04.2024 Date of first issue: 04.11.2014
Packir Labels Packir aircraf Packir ger air	ng instruction (cargo t) ng instruction (passen-	: 9 : II : N : 9 : 9		
IMDG-Code UN number Proper shipping name Transport hazard class(es) Packing group Labels EmS Code Marine pollutant		: E N (0 : 9 : II : 9 : F	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE N.O.S. (Cefquinome) 9 III 9 F-A, S-F yes	

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### 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.

### Section 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and	:	Not applicable
Environmental Protection and Management (Hazard- ous Substances) Regulations		

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.12	28.09.2024	27965-00027	Date of first issue: 04.11.2014

#### Section 16: Other information

Revision Date	:	28.09.2024
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	:	dd.mm.yyyy

### 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

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





Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.12	28.09.2024	27965-00027	Date of first issue: 04.11.2014

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.

SG / EN