

6.1 30.09.2023 438908-00021 Date of first issue: 06.01.2016	Version Revision 6.1 30.09.20			
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Section 1: Identification

Product name	:	Ceftolozane / Tazobactam Injection Formulation			
Manufacturer or supplier's details Company : MSD					
Address	:	33 Whakatiki Street - Private Ba Upper Hutt - New Zealand	g 908		
Telephone	:	0800 800 543			
Emergency telephone number	:	0800 764 766 (0800 POISON) CHEMCALL)	0800 243 622 (0800		
E-mail address	:	EHSDATASTEWARD@msd.cor	n		
Recommended use of the che	em	ical and restrictions on use			
Recommended use	:	Pharmaceutical			

: Not applicable

Section 2: Hazard identification

Restrictions on use

GHS Classification		
Respiratory sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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Drocou	tionon / ototomonto	prolonged or repe	damage to organs (Kidney, Liver) through eated exposure. o aquatic life with long lasting effects.
Precau	tionary statements	Prevention: P261 Avoid breat P273 Avoid relea P284 Wear respir	se to the environment.
		keep comfortable	xperiencing respiratory symptoms: Call a R/ doctor.
		Disposal: P501 Dispose of disposal plant.	contents/ container to an approved waste

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ceftolozane	689293-68-3	>= 30 -< 50
Tazobactam	89786-04-9	>= 10 -< 20

Section 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. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water.



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If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders		 If swallowed, Do Get medical attern Rinse mouth the May cause allern ties if inhaled. May cause dam exposure. Excessive exponent tive airways dyst Contact with du the skin. Dust contact with First Aid responent and use the recovered 	ention if irritation develops and persists. O NOT induce vomiting. ention if symptoms occur. oroughly with water. rgy or asthma symptoms or breathing difficul- nage to organs through prolonged or repeated psure may aggravate preexisting asthma and y disorders (e.g. emphysema, bronchitis, reac- sfunction syndrome). st can cause mechanical irritation or drying of th the eyes can lead to mechanical irritation. nders should pay attention to self-protection, commended personal protective equipment tial for exposure exists (see section 8).
	es to physician		atically and supportively.
	5: Fire-fighting measure		
Uns	ecific hazards during fire-	concentrations, potential dust ex	
Haz ucts	zardous combustion prod- S	: Carbon oxides Metal oxides Chlorine compo Nitrogen oxides	
Spe ods	ecific extinguishing meth-	cumstances and Use water spray Remove undam so.	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. haged containers from fire area if it is safe to do
for	ecial protective equipment firefighters cchem Code		ire, wear self-contained breathing apparatus. rotective equipment.

Section 6: Accidental release measures

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-



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genc	y procedures		tective equipment	recommendations (see section 8).
Envii	ronmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	over the area to n Add excess liquid Soak up with iner Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Clean up remainin bent. Local or national in posal of this mate employed in the of mine which regula Sections 13 and 1	n absorbents and place a damp covering ninimise entry of the material into the air. to allow the material to enter into solution. t absorbent material. dust in the air (i.e., clearing dust surfaces air). buld not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

Section 7: Handling and storage

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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 respiratory irritants or sensitisers. Minimize dust generation and accumulation. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the



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Hygiene measures		flushing system place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.
Cond	litions for safe storage	Keep tightly clo	
Mate	rials to avoid		ance with the particular national regulations. In the following product types: g agents

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Ceftolozane	689293-68-3	TWA	1000 µg/m3 (OEB 1)	Internal			
	Further information: DSEN, RSEN						
		Wipe limit	100 µg/100 cm ²	Internal			
Tazobactam	89786-04-9	TWA	250 µg/m3 (OEB 2)	Internal			
	Further information: RSEN						
		Wipe limit	100 µg/100 cm2	Internal			

Components with workplace control parameters

Engineering measures :	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipmer	t
	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
Eye 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.



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	and body protection	:	potential for direct aerosols. Work uniform or la	l or other full face protection if there is a contact to the face with dusts, mists, or aboratory coat.
Section	9: Physical and chemica	l pro	operties	
Арр	earance	:	powder	
Colo	bur	:	No data available)
Odo	ur	:	No data available)
Odo	ur Threshold	:	No data available)
рН		:	No data available	
Melt	ing point/freezing point	:	No data available	
Initia rang	al boiling point and boiling Je	:	No data available	3
Flas	h point	:	Not applicable	
Eva	poration rate	:	No data available)
Flan	nmability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
Flam	nmability (liquids)	:	No data available	
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vap	our pressure	:	No data available)
Rela	ative vapour density	:	No data available)
Rela	ative density	:	No data available	9
Den	sity	:	No data available	
	ibility(ies) Vater solubility	:	No data available	9
	ition coefficient: n-	:	No data available)
	nol/water -ignition temperature	:	No data available	



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:	No data available
:	No data available
:	Not explosive
:	The substance or mixture is not classified as oxidizing.
:	No data available
:	No data available
	:

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents

Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on avail	able	information.
Components:		

Ceftolozane:

Acute toxicity (other routes of administration)	:	LD50 (Rat): > 2,000 mg/kg Application Route: Intravenous
		LD50 (Mouse): > 1,500 mg/kg Application Route: Intravenous
		LD50 (Dog): > 2,000 mg/kg Application Route: Intravenous



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Tazobactam:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): > 5,000 mg/kg Application Route: Intravenous
		LD50 (Mouse): > 5,000 mg/kg Application Route: Intravenous
		LD50 (Dog): > 5,000 mg/kg Application Route: Intravenous

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

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:

Ceftolozane:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	Sensitiser

Tazobactam:

Result

: Sensitiser

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

:

Components:

Ceftolozane:

Genotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES) Result: negative



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		Test Type: Ch Result: negativ	romosome aberration test in vitro ve
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test e
		Test Type: In Result: negativ	vitro mammalian cell gene mutation test ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Result: negativ	Se
Tazo	bactam:		
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
			vitro mammalian cell gene mutation test nouse lymphoma cells e
			romosome aberration test in vitro Chinese hamster fibroblasts ve
Geno	toxicity in vivo	cytogenetic as Species: Mous	se pute: Intraperitoneal injection

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.



ersion 1	Revision Date: 30.09.2023	SDS Number: 438908-00021	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
0			
<u>Comp</u>	onents:		
	ozane:		
Effects	s on fertility	Species: R Application Fertility: N	Fertility/early embryonic development at Route: Intravenous injection DAEL: 1,000 mg/kg body weight effects on fertility
Effects	s on foetal develop-	Species: M Application Developme Remarks: I Test Type: Species: R Application Developme	Route: Intravenous injection ental Toxicity: NOAEL: 2,000 mg/kg body weig No significant adverse effects were reported Embryo-foetal development
	actam: s on fertility	: Test Type:	Fertility/early embryonic development
			at Route: Intraperitoneal injection DAEL: 640 mg/kg body weight
Effects ment	s on foetal develop-	Species: R Application Developme	Embryo-foetal development at Route: Intraperitoneal injection ental Toxicity: NOAEL: 40 mg/kg body weight ects on early embryonic development
		Species: R Application Developme	Embryo-foetal development at Route: Intravenous injection ental Toxicity: NOAEL: 3,000 mg/kg body weig effects on foetal development
	- single exposure assified based on avai	able information.	
	- repeated exposure	s (Kidney Liver)	through prolonged or repeated exposure.
-	onents:		

Components:

Ceftolozane:		
Target Organs Assessment	:	Kidney May cause damage to organs through prolonged or repeated



rsion	Revision Date: 30.09.2023		S Number: 908-00021	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
			exposure.	
Tazok	pactam:			
Targe	t Organs	:	Liver	
	ssment		May cause dar exposure.	nage to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Cefto	lozane:			
Speci			Rat	
NOAE			1,000 mg/kg	
	cation Route		Intravenous	
	sure time t Organs		28 days Kidney	
Symp	0		No adverse eff	ects
Speci		:	Dog	
LOAE			300 mg/kg	
	sure time		28 days	
Targe	t Organs	:	Kidney	
Tazok	pactam:			
Speci	es	:	Rat	
NOAE			40 mg/kg	
	ation Route		Intraperitoneal	
•	sure time		6 Months	
Targe	t Organs	:	Liver	
Speci			Dog	
NOAE			40 mg/kg	
LOAE	-		80 mg/kg	
	cation Route		Intraperitoneal	
	sure time t Organs		6 Months Liver	
raige	organs	•		
-	ation toxicity	- 1- 1- 1	f	
	assified based on a rience with human			
-	oonents:	5790301	~	
	lozane:			
Ingest	tion			arrhoea, Fever, Headache, Nausea, Skin irrita

tion, Gastrointestinal discomfort



ersion .1	Revision Date: 30.09.2023		0S Number: 8908-00021	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Tazo Inhala	bactam: ation	:	Remarks: May o ing difficulties if	cause allergy or asthma symptoms or breath- inhaled.
ection 1	2: Ecological informati	on		
Ecote	oxicity			
Com	ponents:			
Cefto	olozane:			
Toxic plants	ity to algae/aquatic s	:	Exposure time:	a flos-aquae): 0.0401 mg/l 72 h Test Guideline 201
			Exposure time:	na flos-aquae): 0.0018 mg/l 72 h Test Guideline 201
	ctor (Acute aquatic tox-	:	10	
icity) Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3	ales promelas (fathead minnow)): 10 mg/l 32 d Test Guideline 210
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	a magna (Water flea)): 9.6 mg/l 21 d Test Guideline 211
M-Fa toxici	ctor (Chronic aquatic	:	10	
		:	Exposure time: 3 Test Type: Resp	
Tazo	bactam:			
Toxic plants	ity to algae/aquatic s	:	Exposure time:	a flos-aquae): 0.96 mg/l 72 h Test Guideline 201
			Exposure time:	na flos-aquae): 0.44 mg/l 72 h Test Guideline 201



sion	Revision Date: 30.09.2023		0S Number: 8908-00021	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
	ctor (Acute aquatic tox-	:	1	
icity) Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 10.6 mg/ 2 d ⁻ est Guideline 210
	ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 9.6 mg/l 1 d ⁻ est Guideline 211
Toxicity to microorganisms		:	EC50: > 1,000 m Exposure time: 3 Test Type: Respi Method: OECD T	h
			NOEC: 1,000 mg Exposure time: 3 Test Type: Respi Method: OECD T	h
Persi	stence and degradabili	ity		
Comp	oonents:			
	lozane: gradability	:	Result: Not readi Method: OECD T	ly biodegradable. ēst Guideline 301D
	bactam: gradability	:	Result: Not readi Method: OECD T	ly biodegradable. est Guideline 301D
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Partiti	lozane: on coefficient: n- ol/water	:	log Pow: -0.21	
Partiti	oactam: on coefficient: n- ol/water	•	log Pow: -0.63	
Mobil	lity in soil			
Comp	oonents:			
	lozane: oution among environ-	:	log Koc: 3.3	



mental compartments Method: OECD Test Guideline 106 Tazobactam: Distribution among environ- remental compartments Other adverse effects No data available Section 13: Disposal considerations Disposal methods 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. Section 14: Transport information International Regulations UNRTDG UN number : Proper shipping name : VA.OS. (Cetrolozane, Tazobactam) Class : UNID No. : UNID No. : UNID No. : UNID No. : Packing group : UNID No. : Packing instruction (cargo : Packing instruction (cargo : Packing instruction (passen- : : Packing instruction (passen- : : </th <th>Version 6.1</th> <th>Revision Date: 30.09.2023</th> <th>SDS Nu 438908-</th> <th></th> <th>Date of last issue: 04.04.2023 Date of first issue: 06.01.2016</th>	Version 6.1	Revision Date: 30.09.2023	SDS Nu 438908-		Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
Distribution among environ- mental compartments Other adverse effects No data available Section 13: Disposal considerations Disposal methods Waste from residues Dispose of in accordance with local regulations. Contaminated packaging Contaminated packaging Contaminated packaging Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of an accordance with local regulations. Dispose of in accordance with local regulations. Dispose of in accordance with local betwere, Dispose of a sunused product. Dispose of a sunused pro	mer	ntal compartments	Meth	nod: OECD ⁻	Test Guideline 106			
Distribution among environ- mental compartments Other adverse effects No data available Section 13: Disposal considerations Disposal methods Waste from residues Dispose of in accordance with local regulations. Contaminated packaging Contaminated packaging Contaminated packaging Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of in accordance with local regulations. Contaminated packaging Dispose of an accordance with local regulations. Dispose of in accordance with local regulations. Dispose of in accordance with local betwere, Dispose of a sunused product. Dispose of a sunused pro	_							
No data available Section 13: Disposal considerations Disposal methods Waste from residues : 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. Section 14: Transport information International Regulations UNRTDG UN number : UN number : Proper shipping name : Class : 9 Packing group Environmentally hazardous : UNN 1D No. : UN 200 : Class : 9 Packing group Environmentally hazardous : UN/ID No. : UN 3077 Proper shipping name : Environmentally hazardous substance, solid, n.o.s. Class : : Packing group : III Labels : : UN/ID No. : UN 3077 Proper shipping name : : '	Dist	ribution among environ-	: log ł	log Koc: 0.87				
Disposal methods 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. Section 14: Transport information International Regulations UNRTDG UN number UN 3077 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Class 9 Packing group III Labels 9 Environmentally hazardous yes IATA-DGR UN 3077 Proper shipping name Environmentally hazardous substance, solid, n.o.s. (Ceftolozane, Tazobactam) Class Class 9 Packing instruction (cargo aircraft) 9 Packing instruction (passen- ges 6 9 Packing instruction (passen- ges 6 956 aircraft) 956 ger aircraft) 956 Proper shipping name Yes IMDG-Code UN 3077 Proper shipping name Yes IMDG-Code								
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. Section 14: Transport information International Regulations UNRTDG UN number : UN 3077 Proper shipping name : UN NUMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ceftolozane, Tazobactam) Class : 9 Packing group : III Labels : 9 Environmentally hazardous : yes IATA-DGR UN/ID No. : UN 3077 Proper shipping name : : Class : 9 Packing group : III Labels : 9 Packing group : III Labels : 9 Packing instruction (cargo aircraft) : 956 Packing instruction (passen- ger aircraft) : 956 Proper shipping name : Yes IMDG-Code UN number	Section	13: Disposal considerat	ions					
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. Section 14: Transport information International Regulations UNRTDG UN number : UN 3077 Proper shipping name : UN NUMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ceftolozane, Tazobactam) Class : 9 Packing group : III Labels : 9 Environmentally hazardous : yes IATA-DGR UN/ID No. : UN 3077 Proper shipping name : : Class : 9 Packing group : III Labels : 9 Packing group : III Labels : 9 Packing instruction (cargo aircraft) : 956 Packing instruction (passen- ger aircraft) : 956 Proper shipping name : Yes IMDG-Code UN number	Dis	posal methods						
dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. Section 14: Transport information International Regulations UNRTDG UN number : Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ceftolozane, Tazobactam) Class : Packing group : III Labels Environmentally hazardous : VN/ID No. : Proper shipping name : UN/ID No. : Proper shipping name : Class : Packing group : UN/ID No. : Proper shipping name : Class : Packing instruction (cargo aircraft) : Packing instruction (passen- ger aircraft) : Packing instruction (passen- ger aircraft) : Proper shipping name : UN number : : Packing instruction (passen- ger aircraft) : Packing instruction (passen- ger shipping name : UN number								
International Regulations UNRTDG UN number : UN 3077 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Class : 9 Packing group : III Labels : 9 Packing group : III Labels : 9 Environmentally hazardous : 9 Packing group : UN 3077 Proper shipping name : UN 3077 Packing instruction (cargo : 956 aircraft : : Packing instruction (passen- : 956 iarcraft : : Proper shipping name : yes IMDG-Code : : UN nu	Cor	taminated packaging	dling	: Empty containers should be taken to an approved waste ha dling site for recycling or disposal.				
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Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
6.1	30.09.2023	438908-00021	Date of first issue: 06.01.2016

Packing group	:	
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

NZS 5433		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Ceftolozane, Tazobactam)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

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/legislation specific for the substance or mixture

HSNO Approval Number

not allocated

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

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

Section 16: Other information

Revision Date	:	30.09.2023
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 Agency, http://echa.europa.eu/



Version Revision Date: 6.1 30.09.2023 SDS Number: 438908-00021 Date of last issue: 04.04.2023 Date of first issue: 06.01.2016

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 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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