

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
6.1	28.09.2024	441472-00022	Date of first issue: 06.01.2016

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name	:	Ceftolozane / Tazobactam Injection Formulation
		substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Pharmaceutical
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of th	e saf	fety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

+1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms			
Sign	al word	: Danger	•
Haza	ard statements	difficulties if H373 May repeated ex	cause damage to organs through prolonged or
Prec	autionary statements	P273 Avo	not breathe dust. d release to the environment. ar respiratory protection.
		P342 + P31 POISON CE	table for breathing.

Hazardous components which must be listed on the label:

Ceftolozane Tazobactam

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**

### 3.2 Mixtures

Components



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Chem	nical name	CAS-No. EC-No. Index-No. Registration num	Classification	Concentration (% w/w)
Cefto	lozane	689293-68-3	Resp. Sens. 1B; H334 STOT RE 2; H373 (Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 30 - < 50
Tazoł	bactam	89786-04-9	Resp. Sens. 1B; H334 STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

## 4.1 Description of 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.
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).
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.



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		Get medical at	tention if symptoms occur.		
In case	e of eye contact		If in eyes, rinse well with water. Get medical attention if irritation develops and persists.		
If swallowed		Get medical at	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
4.2 Most in	nportant symptoms a	ind effects, both ac	ute and delayed		
Risks		ties if inhaled.	ergy or asthma symptoms or breathing difficul- mage to organs through prolonged or repeated		
		other respirato tive airways dy Contact with de	osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac- sfunction syndrome). ust can cause mechanical irritation or drying of		
		the skin. Dust contact w	ith the eyes can lead to mechanical irritation.		
4.3 Indicat	ion of any immediate	medical attention a	and special treatment needed		

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Treatment

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Chlorine compounds Nitrogen oxides (NOx)

: Treat symptomatically and supportively.



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	ice for firefighters			
Special protective equipment for firefighters		÷		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protect	tive	equipment and emergency procedures
Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

	• •
Methods for cleaning up	<ul> <li>Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



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### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

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 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. Minimize dust generation and accumulation. Keep container closed when not in use. 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 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 contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage,	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents
7.3 Specific end use(s)		
Specific use(s)	:	No data available



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### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Dust

5 mg/m3 Value type (Form of exposure): TWA (respirable dust) Basis: FOR-2011-12-06-1358

10 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: FOR-2011-12-06-1358

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

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium chloride	Workers	Inhalation	Long-term systemic effects	2068,62 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	2068,62 mg/m3
	Workers	Skin contact	Long-term systemic effects	295,52 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	295,52 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	443,28 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	443,28 mg/m3
	Consumers	Skin contact	Long-term systemic effects	126,65 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	126,65 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	126,65 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	126,65 mg/kg bw/day
L-Arginine hydrochlo- ride	Workers	Inhalation	Long-term systemic effects	668,2 mg/m3
	Workers	Skin contact	Long-term systemic	947,5 mg/kg



bw/day

effects

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					effects	bw/day
		Consumers	Inhalation		Long-term systemic effects	164,8 mg/m3
		Consumers	Skin conta	act	Long-term systemic effects	473,8 mg/kg bw/day
		Consumers	Ingestion		Long-term systemic	47,8 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Sodium chloride	Fresh water	5 mg/l
	Sewage treatment plant	500 mg/l
	Soil	4,86 mg/kg dry weight (d.w.)
L-Arginine hydrochloride	Fresh water	2,2 mg/l
	Marine water	0,22 mg/l
	Intermittent use/release	22 mg/l
	Sewage treatment plant	12000 mg/l
	Fresh water sediment	4,437 mg/kg
	Marine sediment	0,444 mg/kg

### 8.2 Exposure controls

### **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 equipm	nent	
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.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143
Filter type	:	Particulates type (P)

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

### 9.1 Information on basic physical and chemical properties

Physical state	 :	powder
Calaur		No doto d

Colour

No data available



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C	Ddour		:	No data available	
C	Ddour T	hreshold	:	No data available	•
Ν	Aelting	point/freezing point	:	No data available	
	nitial bo ange	piling point and boiling	:	No data available	
F	lamma	ability (solid, gas)	:	May form explosi dling or other mea	ve dust-air mixture during processing, han- ans.
F	lamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
F	-lash p	pint	:	Not applicable	
A	Auto-igr	nition temperature	:	No data available	1
C	Decomp	position temperature	:	No data available	
р	эΗ		:	No data available	1
V	/iscosit Visc	y osity, kinematic	:	No data available	
S	Solubilit Wate	y(ies) er solubility	:	No data available	
	Partitior	n coefficient: n- /water	:	No data available	
V	/apour	pressure	:	No data available	•
F	Relative	edensity	:	No data available	
C	Density		:	No data available	
F	Relative	e vapour density	:	No data available	
F		characteristics cle size	:	No data available	



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<b>9.2 Other i</b> Explos	information sives	: Not explosive	e
Oxidiz	ing properties	: The substand	ce or mixture is not classified as oxidizing.
Evapo	oration rate	: No data avai	lable
Molec	ular weight	: No data avai	lable

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.

### **10.2 Chemical stability**

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions :	•	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
<b>10.4 Conditions to avoid</b> Conditions to avoid		Heat, flames and sparks. Avoid dust formation.
<b>10.5 Incompatible materials</b> Materials to avoid :	:	Oxidizing agents

### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eve contact

### Acute toxicity

Not classified based on available information.

### **Components:**

### Ceftolozane:

Acute toxicity (other routes of :	LD50 (Rat): > 2.000 mg/kg
administration)	Application Route: Intravenous

Commission Regulation (EU) 2020/878



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				LD50 (Mouse): > Application Route	
				LD50 (Dog): > 2.0 Application Route	00
	Tazoba	actam:			
	Acute o	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
				LD50 (Mouse): >	5.000 mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): > 5.0 Application Route	00
				LD50 (Mouse): > Application Route	0 0
				LD50 (Dog): > 5.0 Application Route	

### 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

### Germ cell mutagenicity

Not classified based on available information.

### Components:

### Ceftolozane:



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Genotoxicity in vitro		: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) ve
		Test Type: Ch Result: negativ	romosome aberration test in vitro
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test e
		Test Type: In Result: negativ	vitro mammalian cell gene mutation test ve
Genotoxicity in vivo		: Test Type: Ma cytogenetic as Species: Mous Result: negativ	Se
Tazol	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 for the second se

# Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.



rsion	Revision Date: 28.09.2024		OS Number: 1472-00022	Date of last issue: 06.04.2024 Date of first issue: 06.01.2016
<u>Com</u>	oonents:			
Cefto	lozane:			
Effect	ts on fertility	:	Species: Rat Application Ro	tility/early embryonic development ute: Intravenous injection L: 1.000 mg/kg body weight ects on fertility
Effect ment	ts on foetal develop-	:	Species: Mous Application Ro Developmenta	bryo-foetal development e ute: Intravenous injection I Toxicity: NOAEL: 2.000 mg/kg body weight significant adverse effects were reported
			Species: Rat Application Ro Developmenta	bryo-foetal development ute: Intravenous injection I Toxicity: NOAEL: 1.000 mg/kg body weight significant adverse effects were reported
Tazol	bactam:			
Effect	ts on fertility	:	Species: Rat Application Ro	tility/early embryonic development ute: Intraperitoneal injection :L: 640 mg/kg body weight
Effect ment	ts on foetal develop-	:	Species: Rat Application Ro Developmenta	bryo-foetal development ute: Intraperitoneal injection I Toxicity: NOAEL: 40 mg/kg body weight on early embryonic development
			Species: Rat Application Ro Developmenta	bryo-foetal development ute: Intravenous injection I Toxicity: NOAEL: 3.000 mg/kg body weight ects on foetal development
	<b>- single exposure</b> lassified based on avai	lable	information.	
	- repeated exposure			
	0 0	ns thr	ough prolonged	or repeated exposure.
<u>Com</u>	ponents:			
Cefto	lozane:			

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



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<b>Tazobactam:</b> Target Organs Assessment		: Liver : May cause dam exposure.	age to organs through prolonged or repeated
Repeated dos	e toxicity		
Components:			
Ceftolozane:			
Species NOAEL Application Ro Exposure time Target Organs Symptoms		: Rat : 1.000 mg/kg : Intravenous : 28 days : Kidney : No adverse effe	ects
Species LOAEL Exposure time Target Organs		: Dog : 300 mg/kg : 28 days : Kidney	
Tazobactam:			
Species NOAEL Application Ro Exposure time Target Organs		: Rat : 40 mg/kg : Intraperitoneal : 6 Months : Liver	
Species NOAEL LOAEL Application Ro Exposure time Target Organs		: Dog : 40 mg/kg : 80 mg/kg : Intraperitoneal : 6 Months : Liver	
Aspiration tox Not classified to 11.2 Information o	pased on availa	able information. <b>Is</b>	

# Endocrine disrupting properties

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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### Experience with human exposure

# Components: Ceftolozane: Ingestion : Symptoms: Diarrhoea, Fever, Headache, Nausea, Skin irritation, Gastrointestinal discomfort Tazobactam: Inhalation : Remarks: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:		
Ceftolozane:		
Toxicity to algae/aquatic plants	:	EC50 (Anabaena flos-aquae): 0,0401 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae): 0,0018 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to microorganisms	:	EC50 : > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC : 560 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to fish (Chronic tox- icity)	:	NOEC: 10 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 9,6 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211



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	Factor (Chronic aquatic kicity)	:	10	
То	<b>zobactam:</b> xicity to algae/aquatic ants	:	Exposure time: 7	i flos-aquae): 0,96 mg/l 2 h est Guideline 201
			Exposure time: 7	a flos-aquae): 0,44 mg/l 2 h rest Guideline 201
M- icit	Factor (Acute aquatic tox- y)	:	1	
То	xicity to microorganisms	:	Exposure time: 3 Test Type: Respi	ĥ
			NOEC : 1.000 mg Exposure time: 3 Test Type: Respi Method: OECD T	ĥ
To icit	xicity to fish (Chronic tox- y)	:		
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)			1 d a magna (Water flea) fest Guideline 211
12.2 Pe	ersistence and degradabil	ity		
<u>Cc</u>	omponents:			
	f <b>tolozane:</b> odegradability	:	Result: Not readil Method: OECD T	ly biodegradable. est Guideline 301D
	<b>zobactam:</b> odegradability	:	Result: Not readil Method: OECD T	ly biodegradable. est Guideline 301D



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### 12.3 Bioaccumulative potential

### Components:

<b>Ceftolozane:</b> Partition coefficient: n-	:	log Pow: -0,21
octanol/water Tazobactam:		
Partition coefficient: n- octanol/water	:	log Pow: -0,63

### 12.4 Mobility in soil

### **Components:**

### Ceftolozane:

Distribution among environ-	:	log Koc: 3,3
mental compartments		Method: OECD Test Guideline 106

### Tazobactam:

Distribution among environ-	:	log Koc: 0,87
mental compartments		

### 12.5 Results of PBT and vPvB assessment

### Product:

Assessment	:	This substance/mixture contains no components considered
		to be either persistent, bioaccumulative and toxic (PBT), or
		very persistent and very bioaccumulative (vPvB) at levels of
		0.1% or higher.

### **12.6 Endocrine disrupting properties**

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes

:



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Conta	minated packaging	Waste codes sh discussion with Do not dispose Empty containe dling site for rec	specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities. of waste into sewer. rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.

### **SECTION 14: Transport information**

14.1 UN number or ID number			
ADN	:	UN 3077	
ADR	:	UN 3077	
RID	:	UN 3077	
IMDG	:	UN 3077	
ΙΑΤΑ	:	UN 3077	
14.2 UN proper shipping name			
ADN	:	ENVIRONMENTALL N.O.S. (Ceftolozane, Tazoba	Y HAZARDOUS SUBSTANCE, SOLID, actam)
ADR	:	ENVIRONMENTALL` N.O.S. (Ceftolozane, Tazoba	Y HAZARDOUS SUBSTANCE, SOLID, actam)
RID	:	ENVIRONMENTALL` N.O.S. (Ceftolozane, Tazoba	Y HAZARDOUS SUBSTANCE, SOLID, actam)
IMDG	:	ENVIRONMENTALL' N.O.S. (Ceftolozane, Tazoba	Y HAZARDOUS SUBSTANCE, SOLID, actam)
ΙΑΤΑ	:	Environmentally haza (Ceftolozane, Tazoba	ardous substance, solid, n.o.s. actam)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	9	
ADR	:	9	
RID	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			
ADN			



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		g group cation Code Identification Number	:	III M7 90 9	
	Hazard Labels	g group cation Code Identification Number restriction code		III M7 90 9 (-)	
		g group cation Code Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F	
	aircraft)	g instruction (cargo g instruction (LQ)	:	956 Y956 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	956 Y956 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
	<b>ADN</b> Environ	mentally hazardous	:	yes	
	<b>ADR</b> Environ	mentally hazardous	:	yes	
	<b>RID</b> Environ	mentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
		Passenger) mentally hazardous	:	yes	
	IATA (( Environ	Cargo) Imentally hazardous	:	yes	



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### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation	:	Not applicable

 REACH - List of substances subject to authorisation
 : Not applicable

 (Annex XIV)
 : Not applicable

 Regulation (EC) on substances that deplete the ozone
 : Not applicable

 layer
 : Not applicable

 Regulation (EU) 2019/1021 on persistent organic pollu : Not applicable

tants (recast) Regulation (EU) No 649/2012 of the European Parlia- : Not applicable

ment and the Council concerning the export and import of dangerous chemicals

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

### Other regulations:

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.



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The	components of this p	roduct are reported	I in the following inventories:
AICS	6	: not determine	d
DSL		: not determine	d
IECS	SC	: not determine	ed
	mical safety assessm al Safety Assessment		out
	-		
SECTION	N 16: Other informa	tion	
Othe	r information		changes have been made to the previous version d in the body of this document by two vertical
Full t	text of H-Statements		
H334	1	: May cause al ties if inhaled	lergy or asthma symptoms or breathing difficul-
H373	3		amage to organs through prolonged or repeated
H400	)	: Very toxic to a	aquatic life.
H410		: Very toxic to a	aquatic life with long lasting effects.
H411		: Toxic to aqua	tic life with long lasting effects.
Full t	text of other abbrevia	tions	
	atic Acute		cute) aquatic hazard
	atic Chronic		nronic) aquatic hazard
	o. Sens.	: Respiratory s	
STO	I RE -2011-12-06-1358		t organ toxicity - repeated exposure
	-2011-12-06-1358 /	: Long term ex	upational Exposure limits posure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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 popula-



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tion; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the mixture:		Classification procedure:
Resp. Sens. 1	H334	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

### NO / EN