

Version 4.1	Revision Date: 30.09.2023		S Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
SECTION 1. IDENTIFICATION							
Product name		:	Ceftolozane / Ta	zobactam Injection Formulation			
Ма	nufacturer or supplier's	s deta	ils				
Co	mpany	:	MSD				
Address		:	855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB				
Te	Telephone		908-740-4000				
Err	Emergency telephone		1-908-423-6000				
E-r	nail address	address :		EHSDATASTEWARD@msd.com			
Recommended use of the che Recommended use Restrictions on use			nical and restrictions on use Pharmaceutical Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Respiratory sensitization	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic 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. H373 May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.



Version 4.1	Revision Date: 30.09.2023	SDS Number: 441427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Preca	utionary Statements		eathe dust. ase to the environment. piratory protection.
		keep comfortabl	experiencing respiratory symptoms: Call a ER/ doctor.
		Disposal: P501 Dispose o disposal plant.	f 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

Chemical name	CAS-No.	Concentration (% w/w)
Ceftolozane	689293-68-3	>= 30 -< 50
Tazobactam	89786-04-9	>= 10 -< 20
Sodium chloride	7647-14-5	>= 10 -< 20

SECTION 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 soap and plenty of water. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms	:	May cause allergy or asthma symptoms or breathing difficul-



Vers 4.1	sion	Revision Date: 30.09.2023		0S Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
and effects, both acute and delayed			ties if inhaled. May cause damage to organs through prolonged or repeated exposure. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome). Contact with dust can cause mechanical irritation or drying of the skin.					
Protection of first-aiders Notes to physician			:	Dust contact with the eyes can lead to mechanical irritation. 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.				
SEC		. FIRE-FIGHTING ME	ASL					
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	Unsuita media	able extinguishing	:	None known.				
		c hazards during fire J	:	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source potential dust explosion hazard. Exposure to combustion products may be a hazard to here the potential dust explosion produc				
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Nitrogen oxides (l				
	Specifi ods	c extinguishing meth-	:	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			
		l protective equipment fighters						

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for	:	Surround spill with absorbents and place a damp covering



Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
4.1		441427-00020	Date of first issue: 06.01.2016
conta	inment and cleaning up	Add excess liquid Soak up with ine Avoid dispersal of with compressed Dust deposits sh surfaces, as thes released into the Clean up remain absorbent. Local or national disposal of this m employed in the determine which Sections 13 and	minimize entry of the material into the air. d to allow the material to enter into solution. rt absorbent material. of dust in the air (i.e., clearing dust surfaces air). ould not be allowed to accumulate on se may form an explosive mixture if they are atmosphere in sufficient concentration. ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational 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 sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. 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 environment.
Conditions for safe storage	 Keep in properly labeled containers. Keep tightly closed.
Materials to avoid	Store in accordance with the particular national regulations.Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



sion	Revision Date: 30.09.2023	SDS Number: 441427-00020		st issue: 04.04.2023 st issue: 06.01.2016			
Compo	onents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Ceftolo	ozane	689293-68-3		1000 µg/m3 (OEB 1)	Internal		
		Further infor	mation: DSEN, R	SEŃ	•		
			Wipe limit	100 µg/100 cm ²	Internal		
Tazoba	actam	89786-04-9	TWA	250 μg/m3 (OEB 2)	Internal		
		Further infor	mation: RSEN				
			Wipe limit	100 µg/100 cm2	Internal		
Parso	nal protective equip	design and protect proc	compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.				
				deden in the second state			
Filte Hand p	atory protection er type protection terial	exposure as recommend : Particulates	ssessment demoi ed guidelines, us	ntilation is not available nstrates exposures ou e respiratory protectio	tside the		
	otection		-	e shields or aqaales.			
Skin a	nd body protection ne measures	If the work of mists or aer Wear a face potential for aerosols. Work unifor Work unifor If exposure eye flushing working pla When using Wash conta The effectiv engineering appropriate industrial hy	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. Work uniform or laboratory coat. 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, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available



Vers 4.1	sion	Revision Date: 30.09.2023		S Number: 427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
	рН		:	No data available	•
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available)
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
	Flamm	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available)
		explosion limit / Lower ability limit	:	No data available	9
	Vapor _l	oressure	:	No data available)
	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	9
		n coefficient: n-	:	No data available	9
	octanol Autoigr	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	9



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	441427-00020	Date of first issue: 06.01.2016

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, handling 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

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg
		Method: Calculation method

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
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



Version 4.1	Revision Date: 30.09.2023		S Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Sod	ium chloride:			
Acut	Acute oral toxicity Acute inhalation toxicity		LD50 (Rat): 3.5	50 mg/kg
Acut			LC50 (Rat): > 4	2 ma/l
, 100		·	Exposure time: Test atmospher	1 h
Acut	te dermal toxicity	:	LD50 (Rabbit):	> 5.000 mg/kg
Skir	n corrosion/irritation			
Not	classified based on ava	ailable	information.	
<u>Con</u>	nponents:			
Sod	ium chloride:			
Spe		:	Rabbit	
Res	ult	:	No skin irritation	1
Not	Serious eye damage/eye i Not classified based on ava <u>Components:</u>			
Soa Spe	lium chloride:		Rabbit	
Res		:	No eye irritation	l
Res	piratory or skin sensi	itizatio	n	
Skir	n sensitization			
Not	classified based on ava	ailable	information.	
Res	piratory sensitization	1		
May	cause allergy or asthn	na sym	ptoms or breathi	ng difficulties if inhaled.
<u>Con</u>	nponents:			
Ceft	olozane:			
	t Type	:	Maximization Te	est
Spe		:	Guinea pig	
Res	uit	·	Sensitizer	
Tazo	obactam:			
Res	ult	:	Sensitizer	
Sod	lium chloride:			
	t Туре	:		de assay (LLNA)
Rou Spe	tes of exposure	:	Skin contact Mouse	
Res		:	negative	
			-	



Version 4.1	Revision Date: 30.09.2023	SDS Number: 441427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Not c	a cell mutagenicity lassified based on ava conents:	ailable information.	
	lozane: toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: Cl Result: negat	hromosome aberration test in vitro ive
		Test Type: In Result: positi	vitro mammalian cell gene mutation test ve
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	: Test Type: M cytogenetic a Species: Mou Result: negat	ISE
Tazol	bactam:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
			vitro mammalian cell gene mutation test mouse lymphoma cells ve
			hromosome aberration test in vitro Chinese hamster fibroblasts ive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use oute: Intraperitoneal injection



sion	Revision Date: 30.09.2023	SDS Number: 441427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Sodiu	m chloride:		
Genotoxicity in vitro		: Test Type: I Result: posit	n vitro mammalian cell gene mutation test ive
		Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: S (in vitro) Result: posit	Saccharomyces cerevisiae, gene mutation assa ive
			DNA damage and repair, unscheduled DNA syn mmalian cells (in vitro) ive
		Test Type: 0 Result: posit	Chromosome aberration test in vitro
		Test Type: 0 Result: nega	Chromosome aberration test in vitro
Genotoxicity in vivo		Species: Mo	Route: Intraperitoneal injection
		cytogenetic Species: Ra	Autagenicity (in vivo mammalian bone-marrow test, chromosomal analysis) t Route: Intraperitoneal injection
		Result: posit	
Germ Asses	cell mutagenicity - sment	: Weight of ev cell mutager	ridence does not support classification as a gern
	nogenicity		
	assified based on ava	ailable information.	
Comp	onents:		
	m chloride:		
Specie Applic	es ation Route	: Rat : Ingestion	
Expos	ure time	: 2 Years	
Result	t	: negative	
Repro	ductive toxicity		
-	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Ceftol	ozane:		
	s on fertility		ertility/early embryonic development



Versio 4.1	on	Revision Date: 30.09.2023		9S Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
					: Intravenous injection 1.000 mg/kg body weight s on fertility.
E	Effects on fetal development		:	Species: Mouse Application Route Developmental To	ro-fetal development : Intravenous injection oxicity: NOAEL: 2.000 mg/kg body weight ilficant adverse effects were reported
				Species: Rat Application Route Developmental To	ro-fetal development :: Intravenous injection oxicity: NOAEL: 1.000 mg/kg body weight ificant adverse effects were reported
г	Fazoba	ctam:			
E	Effects	on fertility	:	Species: Rat Application Route	y/early embryonic development : Intraperitoneal injection 640 mg/kg body weight
E	Effects	on fetal development	:	Species: Rat Application Route Developmental To	ro-fetal development : Intraperitoneal injection oxicity: NOAEL: 40 mg/kg body weight early embryonic development.
				Species: Rat Application Route Developmental To	ro-fetal development : Intravenous injection oxicity: NOAEL: 3.000 mg/kg body weight s on fetal development.
		single exposure ssified based on availa	ble	information.	
5	STOT-r	epeated exposure			
	•		(Ki	dney, Liver) throug	h prolonged or repeated exposure.
<u>c</u>	Compo	nents:			

Ceftolozane:

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

Tazobactam:

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



	Version 4.1	Revision Date: 30.09.2023	SDS Number: 441427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
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Repeated dose toxicity

Components:

Ceftolozane:

Species NOAEL Application Route Exposure time Target Organs Symptoms	: : : : : : : : : : : : : : : : : : : :	Rat 1.000 mg/kg Intravenous 28 days Kidney No adverse effects.				
Species LOAEL Exposure time Target Organs	: : :	Dog 300 mg/kg 28 days Kidney				
Tazobactam:						
Species NOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Rat 40 mg/kg Intraperitoneal 6 Months Liver				
Species NOAEL LOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Dog 40 mg/kg 80 mg/kg Intraperitoneal 6 Months Liver				
Sodium chloride:						
Species LOAEL Application Route Exposure time	: : :	Rat 2.533 mg/kg Ingestion 2 y				
Aspiration toxicity						
Not classified based on available information.						
Experience with human exposure						
Components:						
Ceftolozane:						

Ingestion	: Symptoms: Diarrhea, Fever, Headache, Nausea, Skin irrita- tion, Gastrointestinal discomfort
Tazobactam:	
Inhalation	: Remarks: May cause allergy or asthma symptoms or breath- ing difficulties if inhaled.



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	441427-00020	Date of first issue: 06.01.2016

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
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 fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 10 mg/l Exposure time: 32 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9,6 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	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
Tazobactam:		
Toxicity to algae/aquatic plants	:	EC50 (Anabaena flos-aquae): 0,96 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae): 0,44 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox-	:	1
icity) Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 10,6 mg/l Exposure time: 32 d Method: OECD Test Guideline 210



Vers 4.1	sion	Revision Date: 30.09.2023		S Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
				NOEC: 1.000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	n ation inhibition
	Sodium	n chloride:			
	Toxicity		:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 5.840 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 4.136 mg/l h
	Toxicity plants	to algae/aquatic	:	EC50: > 2.000 mg Exposure time: 96	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33	es promelas (fathead minnow)): 252 mg/l s d
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia p Exposure time: 21	ulex (Water flea)): 314 mg/l d
	ic toxici Toxicity	to microorganisms	:	EC10: > 1.000 mg	//
	Persist	ence and degradabili	tv		
	Compo	-			
	Ceftolo				
		radability	:	Result: Not readily Method: OECD Te	/ biodegradable. est Guideline 301D
	Tazoba	ctam:			
	Biodegr	adability	:	Result: Not readily Method: OECD Te	/ biodegradable. est Guideline 301D
	Bioacc	umulative potential			
	<u>Compo</u>	onents:			
	Ceftolo	zane:			
	Partitior octanol/	n coefficient: n- /water	:	log Pow: -0,21	



Vers 4.1	sion	Revision Date: 30.09.2023		DS Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		actam: on coefficient: n- l/water	:	log Pow: -0,63	
	Mobilit	ty in soil			
	Comp	onents:			
	Ceftol	ozane:			
		ution among environ- compartments	:	log Koc: 3,3 Method: OECD T	est Guideline 106
	Tazoba	actam:			
		ution among environ- compartments	:	log Koc: 0,87	
	Other	adverse effects			
	No dat	a available			
SEC	TION 1	3. DISPOSAL CONSI	DEF	RATIONS	

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	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY 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	:	Environmentally hazardous substance, solid, n.o.s. (Ceftolozane, Tazobactam)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956



Versi 4.1	ion	Revision Date: 30.09.2023		DS Number: 1427-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
	Enviror	nmentally hazardous	:	yes	
IMDG-Code UN number Proper shipping name		:	UN 3077 ENVIRONMENT/ N.O.S. (Ceftolozane, Taz	ALLY HAZARDOUS SUBSTANCE, SOLID,	
	Class		:	9	
		g group	:		
	Labels		:	9	
	EmS C	ode	:	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.

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

The ingredients 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
Date format	:	dd.mm.yyyy

Further information

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



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	441427-00020	Date of first issue: 06.01.2016

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 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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