

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
8.1	09/30/2023	438910-00021	Date of first issue: 01/06/2016

SECTION 1. IDENTIFICATION

Product name	:	Ceftolozane / Tazobactam Injection Formulation		
Manufacturer or supplier's details				
Company name of supplier	:	Merck & Co., Inc		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				
Recommended use	:	Pharmaceutical		
Restrictions on use	:	Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Respiratory sensitization	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H334 May cause allergy or asthma symptoms or breathing diffi- culties if inhaled. H373 May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure.
Precautionary Statements	:	Prevention: P260 Do not breathe dust. P285 In case of inadequate ventilation wear respiratory protec- tion.
		Response:

Response:



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		son to fresh air	FINHALED: If breathing is difficult, remove per- and keep comfortable for breathing. experiencing respiratory symptoms: Call a doc-
		Disposal:	
		P501 Dispose of	of contents and container to an approved waste

disposal plant.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

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	
Actual concentration is withheld as a trade secret			

Actual concentration is withheld as a trade secret

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 and effects, both acute and delayed	:	May cause allergy or asthma symptoms or breathing difficul- 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.



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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	TION 5	. FIRE-FIGHTING ME	ASU	IRES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
		c hazards during fire I	:	concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
	Hazard 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- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
		l protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. ective equipment.

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 containment and cleaning up	:	Surround spill with absorbents and place a damp covering over the area to minimize 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



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		Clean up remai absorbent. Local or nationa disposal of this employed in the determine which Sections 13 and	te atmosphere in sufficient concentration. ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national 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 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.
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

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m³

Value type (Form of exposure): TWA (total dust)

according to the OSHA Hazard Communication Standard



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			Basis: OSHA Z-3						
		5 mg/m³ Value type (Fc Basis: OSHA 2		: TWA (respirable fra	ction)				
				oot : TWA (respirable fra	ction)				
Dust, r ticulate	nuisance dust and par- es	10 mg/m³ Value type (Fc Basis: CAL PE	• •	: PEL (Total dust)					
			5 mg/m³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL						
Compo	onents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Ceftolo	ozane	689293-68-3	TWA	1000 µg/m3 (OEB 1)	Internal				
		Further inform	Further information: DSEN, RSEN						
			Wipe limit	100 µg/100 cm ²	Internal				
Tazoba	actam	89786-04-9	TWA	250 µg/m3 (OEB 2)	Internal				
		Further inform	ation: RSEN						
			Wipe limit 100 µg/100 cm2 Internal						
	eering measures nal protective equipm	compound. All engineerin design and op protect produ	g controls shoul	trols to minimize expo d be implemented by dance with GMP princ d the environment.	facility				
			ocal exhaust ve	ntilation is recommen	ded to				
	atory protection	: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.							
	protection terial	: Chemical-res	Chemical-resistant gloves						

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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. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.				
Skin and body protection Hygiene measures		: If exposure to eye flushing s working place When using o Wash contam The effective engineering o appropriate d industrial hyg	or laboratory coat. chemical is likely during typical use, provide systems and safety showers close to the a. lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available

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R	Relative	e density	:	No data available	
D	Density		:	No data available	2
Solubility(ies) Water solubility		:	No data available	9	
-	Partition coefficient: n-		:	No data available)
-	octanol/water Autoignition temperature		:	No data available)
C	Decomposition temperature		:	No data available)
V	/iscosit Visc	ty osity, kinematic	:	No data available	9
E	Explosi	ve properties	:	Not explosive	
C	Dxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
Ν	Nolecul	lar weight	:	No data available	9
P	Particle	size	:	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, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition		Oxidizing agents No hazardous decomposition products are known.
products	•	

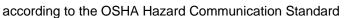
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.





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	Product: Acute oral toxicity		:	Acute toxicity estin Method: Calculation	mate: > 5,000 mg/kg on method
	Compo	onents:			
	Ceftolo	ozane:			
		oxicity (other routes of stration)	:	LD50 (Rat): > 2,00 Application Route	
				LD50 (Mouse): > Application Route	
				LD50 (Dog): > 2,0 Application Route	
	Tazoba	actam:			
	Acute of	oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
				LD50 (Mouse): >	5,000 mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): > 5,00 Application Route	
				LD50 (Mouse): > Application Route	
				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 sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

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

Components:

Ceftolozane:

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	Sensitizer



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	Fazobactam: Result	:	Sensitizer	
	Germ cell mutagenicity Not classified based on availa	ble	information.	
	<u>Components:</u>			
	Ceftolozane: Genotoxicity in vitro	:	Test Type: Bacter Result: negative	al reverse mutation assay (AMES)
			Test Type: Chrom Result: negative	osome aberration test in vitro
			Test Type: In vitro Result: positive	mammalian cell gene mutation test
			Test Type: In vitro Result: negative	mammalian cell gene mutation test
	Genotoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Result: negative	alian erythrocyte micronucleus test (in vivo)
			Test Type: Unsch mammalian liver of Species: Mouse Result: negative	eduled DNA synthesis (UDS) test with ells in vivo
	Fazobactam:			
	Genotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				mammalian cell gene mutation test se lymphoma cells
				osome aberration test in vitro ese hamster fibroblasts
	Genotoxicity in vivo	:	cytogenetic assay Species: Mouse	alian erythrocyte micronucleus test (in vivo) : Intraperitoneal injection
			Test Type: Unsch mammalian liver c	eduled DNA synthesis (UDS) test with ells in vivo



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			Species: Mou Result: negat		
Carci	nogenicity				
Not cl IARC		ent of t	his product pre	sent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.	
OSHA No component of this product present at levels greater than or equal to 0. on OSHA's list of regulated carcinogens.					
NTP				sent at levels greater than or equal to 0.1% is ted carcinogen by NTP.	
-	oductive toxicity assified based on av	ailahla	information		
	onents:				
-	lozane:				
Effects on fertility		:	Species: Rat Application R Fertility: NOA	ertility/early embryonic development oute: Intravenous injection EL: 1,000 mg/kg body weight fects on fertility.	
Effect	Effects on fetal development		Species: Mou Application R Development	nbryo-fetal development se oute: Intravenous injection al Toxicity: NOAEL: 2,000 mg/kg body weight significant adverse effects were reported	
			Species: Rat Application R Development	nbryo-fetal development oute: Intravenous injection al Toxicity: NOAEL: 1,000 mg/kg body weight significant adverse effects were reported	
Tazok	bactam:				
Effect	s on fertility	:	Species: Rat Application R	ertility/early embryonic development oute: Intraperitoneal injection EL: 640 mg/kg body weight	
Effects on fetal development		ent :	Species: Rat Application R Development	nbryo-fetal development oute: Intraperitoneal injection al Toxicity: NOAEL: 40 mg/kg body weight s on early embryonic development.	

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		Developmental To	: Intravenous injection oxicity: NOAEL: 3,000 mg/kg body weight on fetal development.
	TOT-single exposure ot classified based on availa	ble information	
	TOT-repeated exposure		
		(Kidney, Liver) throug	h prolonged or repeated exposure.
	omponents:	(),), 3	
	eftolozane:		
Т	arget Organs ssessment	: Kidney : May cause damag exposure.	ge to organs through prolonged or repeated
Т	azobactam:		
	arget Organs	: Liver	
	ssessment	: May cause damage exposure.	ge to organs through prolonged or repeated
R	epeated dose toxicity		
<u>c</u>	omponents:		
С	eftolozane:		
	pecies	: Rat	
	OAEL	: 1,000 mg/kg	
	pplication Route	: Intravenous	
	xposure time	: 28 days	
	arget Organs ymptoms	: Kidney : No adverse effect	6
5	ymptoms	. NO auverse ellect	5.
S	pecies	: Dog	
	OAEL	: 300 mg/kg	
	xposure time	: 28 days	
Та	arget Organs	: Kidney	
Та	azobactam:		
	pecies	: Rat	
	OAEL	: 40 mg/kg	
	pplication Route	: Intraperitoneal	
	xposure time	: 6 Months	
16	arget Organs	: Liver	
S	pecies	: Dog	
	OAEL	: 40 mg/kg	
	OAEL	: 80 mg/kg	
A	pplication Route	: Intraperitoneal	
		11 / 18	





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	Exposure time : Target Organs :		6 Months Liver	
-	iration toxicity classified based on availa	hla	information	
	erience with human exp			
-	iponents:			
	olozane:			
	stion	:	Symptoms: Diarrition, Gastrointest	nea, Fever, Headache, Nausea, Skin irrita- inal discomfort
Tazo	obactam:			
Inha	lation	:	Remarks: May ca	use allergy or asthma symptoms or breath- haled.
ECTION	12. ECOLOGICAL INFO	OR	MATION	
F a a d				
	toxicity			
<u>Com</u>	ponents:			
	olozane: city to algae/aquatic ts	:	Exposure time: 72	flos-aquae): 0.0401 mg/l 2 h est Guideline 201
			Exposure time: 72	a flos-aquae): 0.0018 mg/l 2 h est Guideline 201
Toxi icity)	city to fish (Chronic tox-	:	Exposure time: 32	es promelas (fathead minnow)): 10 mg/l 2 d rest Guideline 210
aqua	city to daphnia and other atic invertebrates (Chron- kicity)	:	Exposure time: 2	magna (Water flea)): 9.6 mg/l 1 d rest Guideline 211
Toxi	city to microorganisms	:	Exposure time: 3 Test Type: Respi	ĥ
			NOEC: 560 mg/l Exposure time: 3 Test Type: Respi Method: OECD T	

Tazobactam:



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	Toxicity to algae/aquatic plants		:	EC50 (Anabaena Exposure time: 72 Method: OECD To	
				NOEC (Anabaena Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
	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 To	h ation inhibition
	Persist	ence and degradabili	ty		
	<u>Compo</u>	onents:			
	Ceftolo Biodeg	ozane: radability	:	Result: Not readily Method: OECD Te	y biodegradable. est Guideline 301D
	Tazoba Biodegi	actam: radability	:	Result: Not readily Method: OECD Te	y biodegradable. est Guideline 301D
	Bioacc	umulative potential			
	Compo	onents:			
	Ceftold Partition octanol	n coefficient: n-	:	log Pow: -0.21	
	Tazoba Partition octanol	n coefficient: n-	:	log Pow: -0.63	

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Mobil	ity in soil					
Comp	oonents:					
Cefto	lozane:					
	oution among environ- al compartments	:		Test Guideline 106		
Tazok	pactam:					
Distribution among environ- mental compartments		:	log Koc: 0.87			
	adverse effects ta available					
ECTION	13. DISPOSAL CONSI	DEF	RATIONS			
Dieno	osal methods					
•	e from residues		Dispose of in a	cordance with local regulations		
waste from residues		•	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.			
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.			
ECTION	14. TRANSPORT INFO	ORM	ATION			
Intern	national Regulations					
UNRT	DG					
ŪN nu		:	UN 3077			
Prope	r shipping name	:	ENVIRONMEN N.O.S. (Ceftolozane, 7	TALLY HAZARDOUS SUBSTANCE, SOLID,		
Class			9	azobaciam)		
	Packing group Labels		Ĩ			
Labels			9			
Enviro	onmentally hazardous	:	yes			
ΙΑΤΑ-						
	UN/ID No.		UN 3077	ha and a hataway 191		
·	r shipping name	:	(Ceftolozane,	y hazardous substance, solid, n.o.s. Fazobactam)		
Class		:	9			
Packing group			 Missellenseue			

IMDG-Code



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Version Revision Date: SDS Number: Date of last issue: 04/04/2023 8.1 09/30/2023 438910-00021 Date of first issue: 01/06/2016 **UN** number UN 3077 : : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, Proper shipping name N.O.S. (Ceftolozane, Tazobactam) Class ÷ 9 Packing group Ш 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. **Domestic regulation 49 CFR** UN/ID/NA number UN 3077 : Proper shipping name Environmentally hazardous substance, solid, n.o.s. : (Ceftolozane, Tazobactam) Class ÷ 9 Packing group : 111 Labels : CLASS 9 ERG Code : 171 Marine pollutant : ves(Ceftolozane, Tazobactam) Remarks Above applies only to containers over 119 gallons or 450 ÷ liters. Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

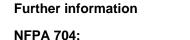
This material does not contain any components with a section 302 EHS TPQ.

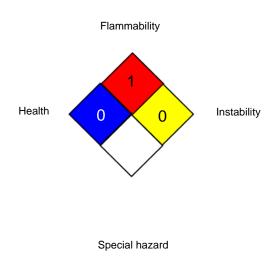
SARA 311/312 Hazards	: Combustible dust	
		Respiratory or skin sensitization
		Specific target organ toxicity (single or repeated exposure)



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SARA	A 313	known CAS nu	does not contain any chemical components with umbers that exceed the threshold (De Minimis) s established by SARA Title III, Section 313.				
US State Regulations							
Pennsylvania Right To Know							
	Ceftolozane L-Arginine hydrocł Tazobactam Sodium chloride	hloride	689293-68-3 1119-34-2 89786-04-9 7647-14-5				
The ingredients of this product are reported in the following inventories:							
AICS		: not determine	d				
DSL		: not determine	d				
IECS	C	: not determine	d				

SECTION 16. OTHER INFORMATION





HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations	Full	text	of	other	abbreviations
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CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit



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OSHA Z-3 / TWA

: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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: 09/30/2023

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.

according to the OSHA Hazard Communication Standard



Ceftolozane / Tazobactam Injection Formulation

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