

VersionRevision Date:SDS Number:Date of last issue: 09.08.20238.130.09.202367746-00029Date of first issue: 27.02.2015	-
---	---

Section 1: Identification

Product name	:	Imipenem / Cilastatin / Relebactam 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 chemical and restrictions on use					
Recommended use Restrictions on use	:	Pharmaceutical Not applicable			

Section 2: Hazard identification

GHS Classification Serious eye damage/eye irri- tation	:	Category 2
Respiratory sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements



Version 8.1	Revision Date: 30.09.2023	SDS Number: 67746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
Haza	rd pictograms		¥.
Signa	al word	: Danger	
•	rd statements	: H319 Causes H334 May ca difficulties if ir H361d Suspe H373 May ca longed or rep	serious eye irritation. use allergy or asthma symptoms or breathing haled. cted of damaging the unborn child. use damage to organs (Kidney) through pro- eated exposure. kic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not I and understoo P261 Avoid b P264 Wash s P273 Avoid re P280 Wear pot tion/ face prot	reathing dust. kin thoroughly after handling. elease to the environment. rotective gloves/ protective clothing/ eye protec-
		keep comforta P305 + P351 for several mi easy to do. Co P308 + P313 attention. P337 + P313 tention.	
		Storage: P405 Store lo Disposal:	cked up.

Other hazards which do not result in classification

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



Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2023
8.1	30.09.2023	67746-00029	Date of first issue: 27.02.2015

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cilastatin	81129-83-1	>= 30 -< 50
Imipenem	74431-23-5	>= 30 -< 50
Relebactam	1174020-13-3	>= 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. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Suspected of damaging the unborn child. 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	:	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).
Notes to physician	:	



Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2023
8.1	30.09.2023	67746-00029	Date of first issue: 27.02.2015

Section 5: Fire-fighting measures

	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
	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
	Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
	Special protective equipment for firefighters Hazchem Code	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2Z
Sec	tion 6: Accidental release me	ası	ures
	Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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

ontainment and cleaning up	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 surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items
----------------------------	---



Version 8.1	Revision Date: 30.09.2023	SDS Number: 67746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015		
		mine which re Sections 13 a	he cleanup of releases. You will need to deter- egulations are applicable. Ind 15 of this SDS provide information regarding or national requirements.		
Section 7	: Handling and storage	9			
Tech	nical measures	causing an ex Provide adeq	ity may accumulate and ignite suspended dust plosion. uate precautions, such as electrical grounding or inert atmospheres.		
	/Total ventilation æ on safe handling	 Use only with Do not breath Do not swallo Do not get in Avoid prolong Wash skin the Handle in acc practice, base sessment Keep contain Already sensi to asthma, all should consu tory irritants of Minimize dus Keep contain Keep contain Keep contain 	adequate ventilation. le dust. w. eyes. jed or repeated contact with skin. broughly after handling. bordance with good industrial hygiene and safety ed on the results of the workplace exposure as- er tightly closed. tised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, It their physician regarding working with respira-		
Hygie	ene measures	: If exposure to flushing syste place. When using o Wash contam The effective engineering o appropriate d industrial hyg	: If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working		
Cond	itions for safe storage	: Keep in prope Store locked Keep tightly c	erly labelled containers. up. losed.		
Mate	rials to avoid	: Do not store v	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents		



Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2023
8.1	30.09.2023	67746-00029	Date of first issue: 27.02.2015

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Cilastatin	81129-83-1	TWA	5 mg/m3 (OEB 1)	Internal		
Imipenem	74431-23-5	TWA	3000 ug/m3 (OEB 1)	Internal		
	Further inform	ation: RSEN, DS	SEN			
		Wipe limit	100 µg/100 cm2	Internal		
Relebactam	1174020-13- 3	TWA	0.3 mg/m3 (OEB 2)	Internal		
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 equipme	nt					
Respiratory protection	sure assessm	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 ty	Particulates type				
Material	: Chemical-resi	Chemical-resistant gloves				
Eye protection	If the work en mists or aeros Wear a faces	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		or laboratory co	at.			

Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	White to light yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available



Version 8.1	Revision Date: 30.09.2023	SDS Number: 67746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015

Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	No data available



Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2023
8.1	30.09.2023	67746-00029	Date of first issue: 27.02.2015

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 No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availal	ble	information.
Components:		
Cilastatin:		
Acute oral toxicity	:	LD50 (Rat): 8,000 mg/kg
		LD50 (Mouse): 8,000 mg/kg
Imipenem:		
Acute oral toxicity	:	LD50 (Mouse): 10,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): > 2,000 mg/kg Application Route: Intravenous
		LD50 (Mouse): 1,500 mg/kg Application Route: Intravenous

Skin corrosion/irritation

Not classified based on available information.

Components:

Cilastatin:		
Species	:	Rabbit
Result	:	No skin irritation

Relebactam:



ersion I	Revision Date: 30.09.2023	SDS Nun 67746-00		Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
Metho	bd	: EpiDe	ərm	
Resul			kin irritation	
Serio	us eye damage/eye	irritation		
	es serious eye irritatio			
<u>Com</u>	oonents:			
Cilas	tatin:			
Speci		: Rabb		
Resul	t	: Mode	erate eye irri	tation
Relea	bactam:			
Resul			e irritation	
Metho	bd	: Bovin	ie cornea (E	3COP)
Resp	iratory or skin sens	itisation		
-	sensitisation assified based on av	ailable inform	ation.	
Resp	iratory sensitisatior	1		
May c	ause allergy or asthr	na symptoms	or breathin	g difficulties if inhaled.
<u>Comp</u>	oonents:			
Cilas	tatin:			
	sure routes		contact	
Rema	Irks	: No da	ata available)
	sure routes	: Inhala		
Rema	arks	: No da	ata available	9
Imipe	enem:			
Rema			cause sensi rosol or dus	tisation of susceptible persons by inhalation t.
	sure routes		contact	
Rema	IFKS	: Not c	iassified du	e to lack of data.
Relea	bactam:			
Test				e assay (LLNA)
Expos Resul	sure routes	: Derm	al skin sensit	izor



Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 09.08.2023
8.1		67746-00029	Date of first issue: 27.02.2015

Chronic toxicity

Germ cell mutagenicity Not classified based on availab	ble	information.
Components:		
Cilastatin: Genotoxicity in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Result: negative
Imipenem:		
Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative
		Test Type: reverse mutation assay Result: negative
		Test Type: unscheduled DNA synthesis assay Result: negative
		Test Type: Chromosomal aberration Result: negative
		Test Type: sister chromatid exchange assay Result: negative
Genotoxicity in vivo	:	Test Type: In vivo micronucleus test Species: Mouse Application Route: Intravenous Result: negative
Relebactam:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
Genotoxicity in vivo	:	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Intraperitoneal injection Result: negative
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.



Version	Revision Date:	SDS Number:	Date of last issue
8.1	30.09.2023	67746-00029	Date of first issue

e: 09.08.2023 ie: 27.02.2015

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

Cilastatin: Effects on fertility :	Test Type: Fertility/early embryonic development Application Route: Intravenous Fertility: LOAEL: 1,000 Symptoms: No adverse effects Result: No effects on fertility and early embryonic develop- ment were detected.
Imipenem:	
Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Intravenous Fertility: LOAEL: 80 mg/kg body weight Symptoms: No adverse effects, Reduced foetal weight Result: No effects on fertility and early embryonic develop- ment were detected.
	Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Subcutaneous Fertility: LOAEL: 320 mg/kg body weight Symptoms: No adverse effects, Reduced foetal weight Result: No effects on fertility and early embryonic develop- ment were detected.
Effects on foetal develop- : ment	Test Type: Development Species: Monkey Application Route: Intravenous Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off- spring were detected., No teratogenic effects
	Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: NOAEL: 60 mg/kg body weight Result: No teratogenic effects
	Test Type: Development Species: Rat Application Route: Intravenous Developmental Toxicity: NOAEL: 60 mg/kg body weight Result: No teratogenic effects



Version 3.1	Revision Date: 30.09.2023	SDS Number: 67746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
Repro sessr	oductive toxicity - As- nent	: Some evide animal expe	nce of adverse effects on development, based on riments.
Rele	pactam:		
Effec	ts on fertility	Species: Ra Application	Pre-/postnatal development t Route: Subcutaneous AEL: 450 mg/kg body weight
Effec ment	ts on foetal develop-	Species: Ra Application Embryo-foet	Embryo-foetal development t Route: Intraperitoneal injection tal toxicity: NOAEL: 450 mg/kg body weight offects on foetal development
		Species: Mo Application Embryo-foet	Embryo-foetal development ouse Route: Intraperitoneal injection tal toxicity: NOAEL: 450 mg/kg body weight offects on foetal development
		Species: Ra Application Development	Route: Intravenous ntal Toxicity: NOAEL: >= 450 mg/kg body weight offects on fertility and early embryonic develop-
		Species: Ra Application Developmer	Development bbit Route: Intravenous ntal Toxicity: NOAEL: 450 mg/kg body weight iffects on foetal development
STO	Γ - single exposure		
	lassified based on avai	lable information.	
STO	Γ - repeated exposure		

STOT - repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Components:

Relebactam:

Kidney May cause damage to organs through prolonged or repeated exposure.
exposure.



Version	Revisior
8.1	30.09.20

Components:

sion Date: 9.2023 SDS Number: 67746-00029

Date of last issue: 09.08.2023 Date of first issue: 27.02.2015

Repeated dose toxicity

Cilastatin: Species NOAEL Application Route Exposure time Remarks	 Rat >= 500 mg/kg Intravenous 90 Days No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Monkey >= 500 mg/kg Intravenous 5 Weeks No significant adverse effects were reported
Imipenem: Species NOAEL LOAEL Application Route Exposure time Target Organs	: Monkey : 60 mg/kg : 150 mg/kg : Intravenous : 6 Months : Kidney
Species NOAEL Application Route Exposure time Remarks	 Monkey 120 mg/kg Subcutaneous 6 Months No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Rat 180 mg/kg Intravenous 6 Months No significant adverse effects were reported
Species LOAEL Application Route Target Organs	: Rabbit : 150 mg/kg : Intravenous : Kidney
Relebactam: Species	: Rat, female
NOAEL Application Route Exposure time	: 150 mg/kg : Intravenous : 30 d
Species NOAEL	: Rat, male : 450 mg/kg



Version 8.1	Revision Date: 30.09.2023		OS Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
	ication Route osure time	:	Intravenous 30 d	
Expo		:	Monkey 25 mg/kg Intravenous 30 d Kidney	
		: : :	Monkey 37.5 mg/kg Intravenous 30 d	
Expo	EL	· · · · · · · · · · · · · · · · · · ·	Monkey 50 mg/kg 150 mg/kg Intravenous 3 Months Kidney	
Not	iration toxicity classified based on availa			
-	erience with human exp <u>iponents:</u>	osi	ne	
Imip	enem: lation	:		ea, Vomiting, Diarrhoea, Fever, hypotension,
				iness, Convulsions, pruritis, Rash use sensitisation of susceptible persons by sol or dust.
Rele	bactam:			
Skin	contact	:		Discomfort, Diarrhoea, Abdominal pain, a, sore throat, Vertigo
Section '	12: Ecological informati	on		
Ecot	toxicity			
<u>Com</u>	<u>iponents:</u>			
Cilas	statin:			
Toxi	city to fish	:	Exposure time: 9	s promelas (fathead minnow)): > 111 mg/l 6 h est Guideline 203
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 99 mg/l 3 h



ersion .1	Revision Date: 30.09.2023		9S Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
			Mothod: OFOD T	ost Guideline 202
Toxicity plants	Toxicity to algae/aquatic plants		Method: OECD To EC50 (Anabaena Exposure time: 72 Method: OECD To	flos-aquae): > 99 mg/l 2 h
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
Toxicity icity)	y to fish (Chronic tox-	:	EC10 (Pimephale Exposure time: 32 Method: OECD Te	
	y to daphnia and other invertebrates (Chron- ity)	:	EC10 (Daphnia m Exposure time: 21 Method: OECD Te	
Toxicity	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
Imipen	em:			
Toxicity	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	y to algae/aquatic	:	EC50 (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Anabaena Exposure time: 72 Method: OECD To	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	



ersion .1	Revision Date: 30.09.2023		98 Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
			NOEC (Pseud mg/l	okirchneriella subcapitata (green algae)): 74
			Exposure time	r: 72 h D Test Guideline 201
M-Fac icity)	tor (Acute aquatic tox-	:	100	
• •	ty to fish (Chronic tox-	:	Exposure time	hales promelas (fathead minnow)): 9.4 mg/l :: 32 d D Test Guideline 210
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time	nia magna (Water flea)): 11 mg/l :: 21 d D Test Guideline 211
M-Fac toxicity	etor (Chronic aquatic	:	10	
	ty to microorganisms	:		
Releb	actam:			
	Toxicity to daphnia and other aquatic invertebrates		Exposure time	a magna (Water flea)): > 100 mg/l :: 48 h D Test Guideline 202
			EC50 (Americ Exposure time	amysis): > 100 mg/l :: 96 h
Toxici plants	ty to algae/aquatic	:	Exposure time	okirchneriella subcapitata (green algae)): 86 m :: 72 h D Test Guideline 201
			mg/l Exposure time	okirchneriella subcapitata (green algae)): 12 n: 72 h D Test Guideline 201
			Exposure time	ena flos-aquae (cyanobacterium)): > 11 mg/l :: 72 h D Test Guideline 201
			Exposure time	iena flos-aquae (cyanobacterium)): 11 mg/l :: 72 h D Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimep Exposure time	hales promelas (fathead minnow)): 9.2 mg/l :: 32 d



Version 8.1	Revision Date: 30.09.2023)S Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
			Method: OEC	D Test Guideline 210
	ity to daphnia and other ic invertebrates (Chron- city)		Exposure time	ia magna (Water flea)): 2.7 mg/l : 21 d D Test Guideline 211
Toxici	ty to microorganisms	:		
Persi	stence and degradabi	lity		
<u>Comp</u>	oonents:			
Cilas Biode	t atin: gradability	:	Biodegradatior Exposure time	
Imipe Biode	n em: gradability	:	Biodegradatior Exposure time	
	actam: gradability	:	Biodegradatior Exposure time	
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
	t atin: on coefficient: n- ol/water	:	log Pow: -3.53	
	nem: on coefficient: n- ol/water	:	log Pow: < -1	
			17 / 2	1



Version 3.1	Revision Date: 30.09.2023	SDS Number: 67746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
octanol	n coefficient: n-	: log Pow: < -2	
Compo	-		
	tin: Ition among environ- compartments	: log Koc: 2.3	
	ctam: ition among environ- compartments	: log Koc: 2.3	
	adverse effects a available		

Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
Empty containers should be taken to an approved waste han-
dling site for recycling or disposal.
ding site for recycling of 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. (Imipenem)
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. (Imipenem)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen-	:	956



Version 8.1	Revision Date: 30.09.2023		DS Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
ger aire Enviroi	craft) nmentally hazardous	:	yes	
IMDG- UN nu Proper		:	UN 3077 ENVIRONMENTA N.O.S. (Imipenem)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packin	g group	:	III	
Labels		:	9	
EmS C	ode	:	F-A, S-F	
Marine	pollutant	:	yes	
Transp	port in bulk according	g to	Annex II of MARP	OL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

NZS 5433 UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class Packing group Labels Hazchem Code Marine pollutant	:	(Imipenem) 9 III 9 2Z 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

HSR100425 Pharmaceutical Active Ingredients Group Standard

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

AICS	:	not determined
------	---	----------------



Version 8.1	Revision Date: 30.09.2023		DS Number: 746-00029	Date of last issue: 09.08.2023 Date of first issue: 27.02.2015
DSL		:	not determined	
IECS	SC	:	not determined	
Section 1	6: Other information			
Section				
Revis	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 Agen cy, http://echa.europa.eu/	
Date format		:	dd.mm.yyyy	

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response: ERG - Emergency Response Guide: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System



Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2023
8.1	30.09.2023	67746-00029	Date of first issue: 27.02.2015

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.

NZ / EN