

### **Ertapenem Formulation**

Version	Revision Date: 2024/09/28	SDS Number:	Date of last issue: 2024/04/06
9.0		20980-00023	Date of first issue: 2014/11/03

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Ertapenem Formulation
Supplier's company name, addr Company name of supplier :		ess and phone number MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product					
Respiratory sensitisation	:	Category 1			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 2			
GHS label elements					
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.			
Precautionary statements	:	Prevention: P261 Avoid breathing dust.			





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				elease to the environment. spiratory protection.		
			keep comforta			
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved we disposal plant.				
Othe	r hazards which do not	t res	ult in classifica	ation		
	of the emergency as-	:	Contact with d the skin.	with the eyes can lead to mechanical irritation. Just can cause mechanical irritation or drying of		

May form explosive dust-air mixture during processing, handling or other means.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
Substance / Mixture	wixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Ertapenem	153773-82-1	>= 80 - < 90	-

### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> </ul>
	When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>
In case of skin contact	: Wash with water and soap. 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.



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Most important symptoms and effects, both acute and delayed		:	Rinse mouth thoroughly with water. May cause allergy or asthma symptoms or breathing difficu- ties if inhaled. Excessive exposure may aggravate preexisting asthma an- other respiratory disorders (e.g. emphysema, bronchitis, re tive airways dysfunction syndrome). Contact with dust can cause mechanical irritation or drying the skin.		
Protection of first-aiders		:	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).		
		o physician	:	Treat symptomati	cally and supportively.
5	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Jnsuita nedia	able extinguishing	:	None known.	
	Specific ighting	c hazards during fire-	:	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. oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides	
	Specific 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
		protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. AC	CIDE	NTAL RELEASE MEA	SUF	RES	

#### Personal precautions, protective equipment and emergency 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





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		cannot be contai	ned.
Methods and materials for containment and cleaning up		over the area to r Add excess liquid Soak up with iner Avoid dispersal o with compressed Dust deposits sho es, as these may leased into the at Clean up remaini bent. Local or national posal of this mate employed in the o mine which regul Sections 13 and	th absorbents and place a damp covering minimise 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 surfac- form an explosive mixture if they are re- troosphere in sufficient concentration. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

### 7. HANDLING AND STORAGE

Handling	
Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	<ul> <li>Do not breathe dust.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers.</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Take care to prevent spills, waste and minimize release to the</li> </ul>
Avoidance of contact Hygiene measures	<ul> <li>environment.</li> <li>Oxidizing agents</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> </ul>



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			do not eat, drink or smoke. minated clothing before re-use.
Stora	age		
Conditions for safe storage		Keep tightly	perly labelled containers. closed. ordance with the particular national regulations.
Mate	rials to avoid		with the following product types:
Pack	aging material	: Unsuitable r	naterial: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Ertapenem	153773-82-1	TWA	0.15 mg/m3 (OEB 2)	Internal
	Further informa	ation: RSEN		

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment:



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Skin and body protection	Safety gog n : Skin should	gles d be washed after contact.
. PHYSICAL AND CHEMIC	AL PROPERTIES	
Physical state	: powder	
Colour	: white	
Odour	: No data a	vailable
Odour Threshold	: No data a	vailable
Melting point/freezing po	oint : No data a	vailable
Boiling point, initial boilir point and boiling range	ng : No data a	vailable
Flammability (solid, gas)		explosive dust-air mixture during processing, han- her means.
Flammability (liquids)	: No data a	vailable
Lower explosion limit an Upper explosion limit per flammability limit	:/Up- : No data a	
Lower explosion limit Lower flammability li		vailable
Flash point	: No data a	vailable
Decomposition tempera	ture : No data a	vailable
рН	: No data a	vailable
Evaporation rate	: No data a	vailable
Auto-ignition temperatur	e : No data a	vailable
Viscosity Viscosity, dynamic	: No data a	vailable
Viscosity, kinematic	: No data a	vailable
Solubility(ies) Water solubility	: No data a	vailable
Partition coefficient: n- octanol/water	: No data a	vailable
Vapour pressure	: No data a	vailable



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	ity and / or relative dens	ity		
Re	elative density	:	No data available	8
De	ensity	:	No data available	9
Relat	ive vapour density	:	No data available	e
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance c	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data availabl	e
	cle characteristics article size	:	No data availabl	e
10. STAB	ILITY AND REACTIVITY	r		
	tivity nical stability ibility of hazardous reac-		Stable under nor May form explos dling or other me	ive dust-air mixture during processing, han-
Cond	litions to avoid	:	Heat, flames and	
	npatible materials rdous decomposition ucts	:	Avoid dust forma Oxidizing agents No hazardous de	
11. TOXIC		TION	l	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	able i	nformation.	
Com	ponents:			
	e oral toxicity	:	LD50 (Mouse): >	500 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Mouse): > Application Route	
			LD50 (Rat): > 700	



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II		Applicatior	n Route: Intravenous
-	corrosion/irritation lassified based on ava	ilable information	
	oonents:		
	enem:		
Speci Resul	es	: Rabbit : No skin irri	tation
	us eye damage/eye i lassified based on ava		
Com	oonents:		
Ertap	enem:		
Speci Resul		: Rabbit : Mild eye ir	ritation
Resp	iratory or skin sensi	tisation	
-	sensitisation		
Not cl	assified based on ava	ilable information	
-	iratory sensitisation	a symptoms or br	eathing difficulties if inhaled.
-	oonents:		
Ertap	enem:		
	sure routes ssment	: Probability	(dust/mist/fume) of respiratory sensitisation in humans based on
Resu	lt	animal tes : positive	ing
	<b>cell mutagenicity</b> lassified based on ava	vilable information	
	oonents:		
	enem:		
	toxicity in vitro	: Test Type: Result: ne	Bacterial reverse mutation assay (AMES) gative
			Alkaline elution assay m: rat hepatocytes gative
			Chromosomal aberration m: Chinese hamster ovary cells gative



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Geno	toxicity in vivo	Test system: h Result: negativ	cronucleus test se
II Carci	nogenicity		
	assified based on ava	lable information.	
•	oductive toxicity		
	assified based on ava	lable information.	
	oonents:		
	enem: s on fertility	Species: Rat Application Ro Fertility: NOAE	rtility/early embryonic development oute: Intravenous EL: 700 mg/kg body weight ects on fertility and early embryonic develop- ected.
		Test Type: Fe Species: Mous Fertility: NOAE Result: No effe	se EL: 700
Effect ment	s on foetal develop-	Developmenta Result: No effe Test Type: De Species: Mous	se oute: Intravenous injection Il Toxicity: NOAEL: 700 mg/kg body weight ects on early embryonic development velopment se
STOL	- single exposure	Developmenta Symptoms: Re	oute: Intravenous injection Il Toxicity: NOAEL: 350 mg/kg body weight educed body weight mechanism or mode of action may not be rel s.

### STOT - repeated exposure

Not classified based on available information.



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Com	eated dose toxicity ponents: penem:		
Expo	EL cation Route sure time et Organs	<ul> <li>Rat</li> <li>2 mg/kg</li> <li>Intravenous</li> <li>2 Weeks</li> <li>Blood</li> <li>The mecha humans.</li> </ul>	s nism or mode of action may not be relevant in
Expo	EL cation Route sure time et Organs	: Rat : 60 mg/kg : Intravenous : 6 Months : Blood : The mecha humans.	s nism or mode of action may not be relevant in
Expo	EL EL cation Route sure time et Organs	: Monkey : 360 mg/kg : 500 mg/kg : Intravenous : 27 Weeks : Liver, Kidne : The mecha humans.	
-	ration toxicity lassified based on av	ailable information.	
•	rience with human e	exposure	
			<i>I</i> ay cause sensitisation by inhalation. Diarrhoea, Nausea, Headache, vaginitis
IZ. ECUL	OGICAL INFORMAT		
	oxicity		
	ponents:		
Ertap	benem:		

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h



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П				
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 500 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
			EC50 (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
	y to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 32 Method: OECD T	
	y to daphnia and other c invertebrates (Chron- sity)		NOEC (Daphnia r Exposure time: 2' Method: OECD T	
Toxicit	y to microorganisms	:	EC10: 3.9 mg/l Exposure time: 3 Test Type: Respir	
II Persis	tence and degradabil	ity		
Comp	onents:			
Ertape Biodeç	e <b>nem:</b> gradability	:	Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T	4.7 %
Stabilit	ty in water	:	Degradation half	life (DT50): 15.3 d

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Bioa	ccumulative potential			
	ponents:			
Partit	<b>Denem:</b> ion coefficient: n- nol/water	:	log Pow: -2.22	
	<b>lity in soil</b> ata available			
	rdous to the ozone lay	er		
	<b>r adverse effects</b> ata available			
13. DISPO	SAL CONSIDERATION	IS		
Disp	osal methods			
•	e from residues	:	Dispose of in acc	cordance with local regulations.
Conta	aminated packaging	:	Empty containers dling site for recy	f waste into sewer. s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION			
Inter	national Regulations			
	<b>TDG</b> umber er shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labe	ing group	:	(Ertapenem) 9 III 9 yes	
<b>IATA</b> UN/II	<b>-DGR</b> D No. er shipping name	:	UN 3077	hazardous substance, solid, n.o.s.
Labe	ing group ls ing instruction (cargo	:	(Entapenent) 9 III Miscellaneous 956	
Pack	ing instruction (passen- ircraft)	:	956	
	onmentally hazardous	:	yes	

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UN r	<b>G-Code</b> number er shipping name	: UN 3077 : ENVIRONME N.O.S.	NTALLY HAZARDOUS SUBSTANCE, SOLID,
	king group	(Ertapenem) : 9 : III	
	els Code ne pollutant	: 9 : F-A, S-F : yes	
Tran	sport in bulk accordi	ng to Annex II of M	ARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

Refer to section 15 for specific national regulation.

#### 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.

**ERG Code** : 171

### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### Fire Service Law

Not applicable to dangerous materials / designated flammables.

#### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Substances Prevented From Impairment of Health

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable



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Not a	tances Subject to be pplicable		
	tances Subject to be pplicable	e Indicated Names	
	<b>and Eye Damage Sι</b> pplicable	bstances for PPE Re	equirements (ISHL MO Art. 594-2)
tions		s (Article 577-2 of the	e Occupational Health and Safety Regula-
Ordin		of Hazards Due to S	Specified Chemical Substances
	nance on Prevention	of Lead Poisoning	
	nance on Prevention	of Tetraalkyl Lead F	Poisoning
	nance on Prevention pplicable	of Organic Solvent	Poisoning
Subs	rcement Order of the tances)	e Industrial Safety ar	nd Health Law - Attached table 1 (Dangerous
Poisc		us Substances Cont	rol Law
viron	-		s of Specific Chemical Substances in the En o the Management Thereof
•	Pressure Gas Safet pplicable	y Act	
-	psive Control Law		
Misce	5	substances and article	es (Article 2 and 3 of rules on shipping and stor- 1)
Misce	ion Law Ilaneous dangerous a aw and its Attached		es (Article 194 of The Enforcement Rules of Avia
		Disaster Prevention	etc Law
Bulk t	ransportation	: Not classified	as noxious liquid substance
Pack	transportation	: Classified as r	marine pollutant



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Narco	otics and Psychotro	pics Control Act		
Not a Speci	pplicable	aw Material (Export / I otropic Raw Material (I	mport Permission) Export / Import permission)	
	e Disposal and Pub trial waste	lic Cleansing Law		
The c	components of this	product are reported	in the following inventories:	
AICS		: not determined	t	
DSL		: not determined	t	
IECS	с	: not determined	t	

#### **16. OTHER INFORMATION**

#### 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/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format

: yyyy/mm/dd

#### 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 Develop-



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ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

JP / EN