



Version 1.13	Revision Date: 06.04.2024		S Number: 31986-00014	Date of last issue: 30.09.2023 Date of first issue: 05.06.2017		
Section 1	: Identification					
Prod	uct identifier	:	Fidaxomicin For	mulation		
Reco	ommended use of the ch	nem	ical and restriction	ons on use		
	Recommended use Restrictions on use		Pharmaceutical Not applicable			
<b>Manu</b> Comp	u <b>facturer or supplier's d</b> bany	etai :	i <b>ls</b> MSD			
Addre	Address		50 Tuas West Drive Singapore - Singapore 638408			
Telep	phone	:	+1-908-740-400	08-740-4000		
Emer	gency telephone number	:	65 6697 2111 (2	4/7/365)		
E-ma	il address	:	: EHSDATASTEWARD@msd.com			
Section 2	: Hazard identification					
Class	sification of the substar	ice	or mixture			
Acute	e toxicity (Oral)	:	Category 4			
GHS	Label elements, includi	ng	precautionary st	atements		
Haza	rd pictograms	:				
Signa	al word	:	Warning			
Haza	rd statements	:	H302 Harmful if	swallowed.		
Preca	autionary statements	:		thoroughly after handling. , drink or smoke when using this product		
			Response:			

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.





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# Other hazards which do not result in classification None known.

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Fidaxomicin	873857-62-6	>= 40 -<= 60
Cellulose	9004-34-6	>= 15 -<= 30
Starch	9005-25-8	>= 5 -<= 15

### Section 4: First-aid measures

Description of necessary 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> </ul>						
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>Get medical attention if symptoms occur.</li> </ul>						
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.						
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.						
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>						
Most important symptoms	d effects, both acute and delayed						
Risks Protection of first-aiders	<ul> <li>Harmful if swallowed.</li> <li>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).</li> </ul>						
Indication of any immediat	Indication of any immediate medical attention and special treatment needed						
Treatment	: Treat symptomatically and supportively.						
ction 5: Fire-fighting measures							

### Section 5: Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing	:	None known.



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media	a					
Spec	ial hazards arising from	n th	e substance or	mixture		
fightir		:		mbustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides			
Spec	ial protective actions for	or f	ire-fighters			
Special protective equipment for firefighters Specific extinguishing meth- ods			In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.			
Section 6	: Accidental release me	eas	ures			
	precautions, protective anal precautions	e ec :	Use personal pr Follow safe han	nergency procedures rotective equipment. Idling advice (see section 7) and personal pro- Int recommendations (see section 8).		
	ental precautions onmental precautions	:	Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ained.		
	and materials for conta ods for cleaning up	inn :	Sweep up or va tainer for dispose Local or national posal of this ma employed in the mine which regu Sections 13 and	cuum up spillage and collect in suitable con-		

### Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE
		CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not swallow.
		Avoid contact with eyes.





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Hygie	ene measures	:	Wash skin thorou Handle in accorda practice, based of sessment Do not eat, drink of Take care to prev environment. If exposure to che flushing systems place. When using do no	or repeated contact with skin. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- or smoke when using this product. ent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use.
Cond	litions for safe storage	e, in	cluding any incom	patibilities
	itions for safe storage rials to avoid	:	Store in accordan	abelled containers. ce with the particular national regulations. the following product types: agents

### Section 8: Exposure controls/personal protection

### **Control parameters**

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Fidaxomicin	873857-62-6	TWA	200 µg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Starch	9005-25-8	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH

Appropriate engineering control measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Individual protection measured	res	, such as personal protective equipment (PPE)
Eye/face protection	:	Wear the following personal protective equipment: Safety glasses
Skin protection	:	Skin should be washed after contact.
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 Hand protection	:	Particulates type

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Ν	<i>N</i> aterial	:	Chemical-resista	nt gloves
F	Remarks	:	: Choose gloves to protect hands against chemicals dep on the concentration and quantity of the hazardous sub stance and specific to place of work. Breakthrough time determined for the product. Change gloves often! For s applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with glove manufacturer. Wash hands before breaks and at end of workday.	
Section	9: Physical and chemic	al p	roperties	
Арр	earance	:	solid	
Colo	bur	:	white to off-white	9
Odo	ur	:	No data available	e

Odour Threshold	:	No data available

Melting point/freezing point	:	175 - 185 °C Active ingredient
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-	:	log Pow: 4.4

: Not applicable



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oct	anol/water		Active ingredient		
Au	to-ignition temperature	:	No data available	e	
De	composition temperature	:	No data available	e	
Vis	cosity Viscosity, kinematic	:	No data available	9	
Ex	plosive properties	:	Not explosive		
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.	
Мс	lecular weight	:	Not applicable		
	rticle characteristics rticle size	:	No data available	9	
Sectior	10: Stability and reactivi	ity			
Ch	activity emical stability ssibility of hazardous reac-	:	Stable under nor	a reactivity hazard. mal conditions. trong oxidizing agents.	
Co Inc Ha	nditions to avoid ompatible materials zardous decomposition oducts	:	<ul> <li>None known.</li> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>		
Section	11: Toxicological inform	natio	on		
	ormation on likely routes of posure	:	Skin contact Ingestion Eye contact		
	ute toxicity rmful if swallowed.				
	oduct:		<b>A</b> , , <b>1</b> ,	·	
Ac	ute oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 833.33 mg/kg on method	
<u>Co</u>	mponents:				
Fic	laxomicin:				
Ac	ute oral toxicity	:	LD50 (Rat): > 1,0	00 mg/kg	
			LD50 (Dog): > 12	0 mg/kg	
Ac	ute toxicity (other routes of	:	LD50 (Rat): 200 r	ng/kg	
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Genotoxicity in vitro



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admi	nistration)		Application Rou	ite: Intravenous
	<b>ulose:</b> e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	4 h
Acut	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Star	ch:			
Acut	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acut	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
-	corrosion/irritation	ailable	information.	
	ous eye damage/eye classified based on ava			
Com	ponents:			
Star Spec Resu	cies	:	Rabbit No eye irritatior	1
Resp	piratory or skin sensi	tisatio	on	
	sensitisation	ailable	information.	
Resp	<b>Diratory sensitisation</b>			
Com	ponents:			
Star	ch:			
		:	Maximisation T Skin contact Guinea pig negative	est
	n cell mutagenicity	ailable	information.	
Com	ponents:			
Fida	xomicin:			
Can			Test Tunes Dee	tarial reverse mutation appay (AMES)

: Test Type: Bacterial reverse mutation assay (AMES)

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rsion  3	Revision Date: 06.04.2024	-	S Number: 1986-00014	Date of last issue: 30.09.2023 Date of first issue: 05.06.2017		
			Result: negative	9		
				omosome aberration test in vitro hinese hamster ovary cells		
Genot	toxicity in vivo		cytogenetic ass Species: Rat	ite: Intravenous		
			Test Type: com Species: Rat Result: negative			
Cellul	ose:					
Genot	toxicity in vitro		Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e		
Genot	toxicity in vivo		: Test Type: Mammalian erythrocyte micronucleus test (in vir cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative			
Starc	h:					
Genot	toxicity in vitro		Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
Carci	nogenicity					
Not cla	assified based on av	vailable i	nformation.			
<u>Comp</u>	oonents:					
Cellul	ose:					
Specie			Rat			
	ation Route		Ingestion 72 weeks			
Result			negative			
Repro	oductive toxicity					
Not cl	assified based on av	vailable i	nformation.			
Comr	onents:					



ersion 13	Revision Date: 06.04.2024		S Number: 31986-00014	Date of last issue: 30.09.2023 Date of first issue: 05.06.2017
Effect	ts on fertility	:	Species: Rat Application Rot	ility/early embryonic development ute: Intravenous injection L: 6.3 mg/kg body weight
Effect ment	ts on foetal develop-	:	Species: Rat Application Rou Developmental	oryo-foetal development ute: Intravenous injection Toxicity: NOAEL: 12.6 mg/kg body weight ignificant adverse effects were reported
			Species: Rabbi Application Rou Developmental	oryo-foetal development t ute: Intravenous injection Toxicity: NOAEL: 7 mg/kg body weight ignificant adverse effects were reported
Cellu	lose:			
Effect	ts on fertility	:	Test Type: One Species: Rat Application Rou Result: negativ	
Effect ment	ts on foetal develop-	:	Test Type: Fert Species: Rat Application Rou Result: negativ	
STO	- single exposure			
Not c	lassified based on avai	lable	information.	
	- repeated exposure			
	lassified based on avai	lable	information.	
	ated dose toxicity			
	ponents:			
Speci NOAI Applie		:	Rat 90 mg/kg Oral	

Application Route Exposure time Remarks	<ol> <li>Oral</li> <li>28 D</li> <li>No significant adverse effects were reported</li> </ol>
Species	: Rat
NOAEL	: 62.5 mg/kg
Application Route	: Intravenous
Exposure time	: 14 D
Species	: Dog
NOAEL	: 9,600 mg/kg



ersion 13	Revision Date: 06.04.2024	SDS Number:Date of last issue: 30.09.20231731986-00014Date of first issue: 05.06.2017
Applic	action Doute	
	cation Route sure time	: Oral : 3 M
Symp		: Vomiting
Rema		: No significant adverse effects were reported
Speci		: Monkey
NOAE Applie	L cation Route	: 90 mg/kg : Oral
	sure time	: 28 D
Rema		: No significant adverse effects were reported
Speci		: Juvenile rat
NOAE		: 200 mg/kg : Oral
	cation Route sure time	: 28 D
Rema		No significant adverse effects were reported
Cellu	lose:	
Speci	es	: Rat
NOAE		: >= 9,000 mg/kg
	cation Route	: Ingestion
Expos	sure time	: 90 Days
Starc		
Speci NOAE		: Rat : >= 2,000 mg/kg
-	cation Route	: Skin contact
Expos	sure time	: 28 Days
Metho	od	: OECD Test Guideline 410
•	ation toxicity	
	assified based on av	
-	rience with human e	Aposure
	oonents: comicin:	
		· Symptome: Abdominal pain, Nauson, Vamiting, constinuti
Inges		: Symptoms: Abdominal pain, Nausea, Vomiting, constipation
	2: Ecological inform	
Toxic	ity	
-	oonents:	
	omicin:	
Toxic plants	ity to algae/aquatic	: EC50 (Anabaena flos-aquae (cyanobacterium)): > 18.4 m Exposure time: 72 h
plants	,	Method: OECD Test Guideline 201
		Remarks: No toxicity at the limit of solubility



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			Exposure time: 7 Method: OECD	na flos-aquae (cyanobacterium)): 5.8 mg/l 72 h Test Guideline 201 kicity at the limit of solubility
Toxi icity	city to fish (Chronic tox- )	:	Exposure time: 3 Method: OECD	ales promelas (fathead minnow)): 8.91 mg/l 32 d Test Guideline 210 kicity at the limit of solubility
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Exposure time: 2	magna (Water flea)): 19.6 mg/l 21 d Test Guideline 211
Тохі	city to microorganisms	:	EC50: > 50 mg/l Exposure time: 3 Test Type: Resp Method: OECD	3 h
			NOEC: 5.9 mg/l Exposure time: 3 Test Type: Resp Method: OECD	
Cell	ulose:			
Тохі	city to fish	:	Exposure time: 4	atipes (Japanese medaka)): > 100 mg/l 48 h 1 on data from similar materials
Pers	sistence and degradabili	ty		
<u>Con</u>	nponents:			
	<b>ulose:</b> legradability	:	Result: Readily t	biodegradable.
Bioa	accumulative potential			
Con	nponents:			
Part	axomicin: ition coefficient: n- nol/water	:	log Pow: 4.4	
Mot	oility in soil			
<u>Con</u>	nponents:			
Dist	axomicin: ribution among environ- tal compartments	:	log Koc: 0.80	
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### Other adverse effects

No data available

#### Section 13: Disposal considerations

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 han- dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

#### Section 14: Transport information

### International Regulations

#### UNRTDG

UN number UN proper shipping name Transport hazard class(es) Subsidiary risk Packing group Labels Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. UN proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user Not applicable

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#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations The components of this product are reported in the following inventories: AICS not determined 5 DSL not determined IECSC not determined

#### Section 16: Other information

Revision Date	:	06.04.2024		
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 Agency, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
SG OEL	:	Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.		
ACGIH / TWA	:	8-hour, time-weighted average		
SG OEL / PEL (long term)	:	Permissible Exposure Level (PEL) Long Term		

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



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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 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.

SG / EN