

Vers 3.1	sion	Revision Date: 30.09.2023		DS Number: /9942-00018	Date of last issue: 04.04.2023 Date of first issue: 19.05.2016			
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1	1.1 Product identifier Trade name : Daptomycin Injection Formulation - 2nd Generation							
1.2	Relevai	nt identified uses of t	he s	substance or mixt	ure and uses advised against			
	Use of	the Sub- /Mixture	:	Pharmaceutical	-			
	Recom on use	mended restrictions	:	Not applicable				
1.3	Details	of the supplier of the	e sat	fetv data sheet				
	Compa	• •	:	MSD 117 16th Road	use, Midrand, South Africa			
	Teleph	one	:	+27 11 655 3000				
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com			

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated	
exposure, Category 2	

H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	:	Prevention:



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P260 Do not breathe dust.

Response:

P314 Get medical advice/ attention if you feel unwell.

Hazardous components which must be listed on the label: Daptomycin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Daptomycin	103060-53-3	STOT RE 2; H373 (muscle, Kidney, Nervous system)	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
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).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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.



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	Get medical attention if irritation develops and persists.								
	lf swall	owed	:	Get medical atter	NOT induce vomiting. Ition if symptoms occur. oughly with water.				
4.2 N	4.2 Most important symptoms and effects, both acute and delayed								
	Risks		:	May cause dama exposure.	ge to organs through prolonged or repeated				
				the skin.	can cause mechanical irritation or drying of				
				Dust contact with	the eyes can lead to mechanical irritation.				
4.3 l	ndicati	on of any immediate	med	dical attention and	d special treatment needed				
	Treatm	ent	:	Treat symptomati	cally and supportively.				
SEC	TION	5: Firefighting meas	sur	es					
5.1 E	Extingu	iishing media							
	-	-	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical					
Unsuitable extinguishing media		:	None known.						
5.2 S	Special	hazards arising from	the	substance or mi	xture				
	-	c hazards during fire-	:	Avoid generating concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a				
	Hazaro ucts	lous combustion prod-	:	Carbon oxides					
5.3 A	Advice	for firefighters							
		I protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.				
	Specifi ods	c extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do				



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SECTION 6: Accidental release measures

certain local of flational requirements.		Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. 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. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
-		Do not breathe dust.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as-
		sessment
		Minimize dust generation and accumulation.
		Keep container closed when not in use.
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		Tak Tak env	e precautiona e care to prev ironment.	neat and sources of ignition. ry measures against static discharges. rent spills, waste and minimize release to the		
Hygier	ne measures	flus plac nate The eng app inde	 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 			
7.2 Condit	ions for safe storage,	includin	g any incom	patibilities		
•	rements for storage and containers			labelled containers. Store in accordance with onal regulations.		
Advice	e on common storage		not store with ong oxidizing a	the following product types: agents		
-	c end use(s) ic use(s)	: No	data available			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis		
		of exposure)				
Sucrose	57-50-1	OEL-RL	10 mg/m3	ZA OEL		
	Further information: Occupational Exposure Limits - Restricted Limits For					
	Hazardous Chemical Agents					
Daptomycin	103060-53-	TWA	800 µg/m3 (OEB 2)	Internal		
	3					

8.2 Exposure controls

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 equipment

Eye/face 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.
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	protection aterial	: Chemical-re	sistant gloves
	and body protection ratory protection	tory protection : If adequate local exhaust ventilation is not ava sure assessment demonstrates exposures ou	
Fil	ter type	: Particulates	guidelines, use respiratory protection. type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold		lyophilised cake light brown No data available No data available
рН	:	6,5 - 7,3 (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
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
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	: :	No data available Not applicable No data available
Decomposition temperature	:	No data available



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Visco Vi	sity scosity, kinematic	: No data availa	able	
Explo	sive properties	: Not explosive		
Oxidizing properties		: The substance or mixture is not classified as oxidizing.		
Flam	information mability (liquids)	: No data availa		
Partic	cle size	: No data available		

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.



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Co	mponents:			
Da	ptomycin:			
	ecies sult	: Rab : Mild	bit skin irritatio	n
	rious eye damage/eye t classified based on ava		mation.	
<u>Co</u>	mponents:			
Sp	ptomycin: ecies sult	: Rab : Mild	bit eye irritatio	1
Re	spiratory or skin sensi	tisation		
-	in sensitisation t classified based on ava	ailable inforr	nation.	
	spiratory sensitisation t classified based on ava		mation.	
	rm cell mutagenicity t classified based on ava	ailable inform	nation.	
<u>Co</u>	omponents:			
	ptomycin: enotoxicity in vitro		t Type: Bacto ult: negative	erial reverse mutation assay (AMES)
			t Type: Chro ult: negative	mosome aberration test in vitro
		Tes		ro mammalian cell gene mutation test ouse lymphoma cells
		thes		damage and repair, unscheduled DNA syn- alian cells (in vitro)
Ge	enotoxicity in vivo	cyto Spe App	genetic assa cies: Mouse	e: Intraperitoneal injection
		mar Spe App	nmalian liver cies: Hamste	e: Intraperitoneal injection



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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Daptomycin:

Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat Application Route: Intravenous injection Fertility: NOAEL: 150 mg/kg body weight Result: No effects on fertility
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Intravenous injection Developmental Toxicity: NOAEL: 75 mg/kg body weight Result: No significant adverse effects were reported
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Intravenous injection Developmental Toxicity: NOAEL: 75 mg/kg body weight Result: No significant adverse effects were reported

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Daptomycin:

Target Organs:muscle, Kidney, Nervous systemAssessment:May cause damage to organs through prolonged or repeated
exposure.

Repeated dose toxicity

Components:

Daptomycin:

Species	:	Dog
NOAEL	:	20 mg/kg
LOAEL	:	40 mg/kg
Application Route	:	Intravenous
Exposure time	:	3 Months
Target Organs	:	Skeletal muscle



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Expo Rema Spec Appli Expo	EL cation Route sure time arks ies cation Route sure time et Organs	: Dog : Intravenous : 28 Days	adverse effects were reported ele, Nervous system
Expo		: Juvenile dog : 50 mg/kg : Intravenous : 28 Days : Skeletal musc	e, Nervous system
Not c	ration toxicity lassified based on ava rience with human e		
Com	ponents:		
•	omycin: ral Information	: Symptoms: Ra	ash, Diarrhoea, vaginitis
SECTION	N 12: Ecological in	formation	
12.2 Pers	city ata available istence and degrada ata available	bility	
12.3 Bioa	ccumulative potentia ata available	al	

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:



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Endo tial	crine disrupting poten-	ered to have e REACH Articl	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at o or higher.
SECTION	l 13: Disposal consi	derations	
13.1 Wast	e treatment methods		
Produ	uct	According to t are not produce Waste codes discussion with	accordance with local regulations. he European Waste Catalogue, Waste Codes ct specific, but application specific. should be assigned by the user, preferably in h the waste disposal authorities. e of waste into sewer.
Conta	aminated packaging	: Empty contair	ners should be taken to an approved waste han- ecycling or disposal.

If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN num	nber
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ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADN	:	Not regulated as a dangerous good



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ADR		: Not regulated	l as a dangerous good		
RID		: Not regulated	: Not regulated as a dangerous good		
IMDG	ì	: Not regulated	: Not regulated as a dangerous good		
ΙΑΤΑ	(Cargo)	: Not regulated	: Not regulated as a dangerous good		
ΙΑΤΑ	(Passenger)	: Not regulated	: Not regulated as a dangerous good		
14.5 Envi	ronmental hazards	-			
Not re	egulated as a dangero	us good			
•	ial precautions for u	ser			
14.7 Tran	sport in bulk accordi	ng to Annex II of M	arpol and the IBC Code		
Rema	arks	: Not applicabl	e for product as supplied.		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The components of this product are reported in the following inventories:			
AICS	:	not determined	
DSL	:	not determined	
IECSC	:	not determined	

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information :	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.			
Full text of H-Statements				
H373 :	May cause damage to organs through prolonged or repeated exposure in contact with skin.			
Full text of other abbreviations				
STOT RE :	Specific target organ toxicity - repeated exposure			
ZA OEL :	South Africa. The Regulations for Hazardous Chemical			
ZA OEL / OEL-RL :	Agents, Occupational Exposure Limits Occupational Exposure Limit Restricted limit - 8- hour expo- sure or equivalent (12 hour shifts)			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by



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Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergencv Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

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/
Sheet		cy, http://echa.europa.eu/

Classification of the mixtur	e:	Classification procedure:
STOT RE 2	H373	Calculation method

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.

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