

## **Daptomycin Injection Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	650799-00017	Date of first issue: 02.05.2016

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Daptomycin Injection Formulation				
Manufacturer or supplier's details						
Company name of supplier	:	MSD				
Address	:	126 E. Lincoln Avenue				
		Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
December de duras						

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Specific target organ toxicity	:	Category 2 (muscle, Kidney, Nervous system)
<ul> <li>repeated exposure</li> </ul>		
(Dermal)		

### **GHS** label elements

Hazard pictograms		
Signal Word	: Wa	Irning
Hazard Statements		73 May cause damage to organs (muscle, Kidney, Nervous tem) through prolonged or repeated exposure in contact with n.
Precautionary Statements	P20	evention: 60 Do not breathe dust. sponse:
		14 Get medical advice/ attention if you feel unwell.
	P50	<b>posal:</b> 01 Dispose of contents/ container to an approved waste dis-
	pos	sal plant.

#### Other hazards

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



ersion 1	Revision Date: 30.09.2023	SDS Number: 650799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016		
Substance / Mixture		: Mixture			
Com	ponents				
Cherr	nical name		CAS-No.	Concentration (% w/w)	
Dapto	omycin		103060-53-3	>= 90 -<= 100	

### SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause damage to organs through prolonged or repeated exposure in contact with skin. Contact with dust can cause mechanical irritation or drying of 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).
Notes to physician	:	Treat symptomatically and supportively.

### 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
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.



## **Daptomycin Injection Formulation**

Ver 4.1	sion	Revision Date: 30.09.2023		9S Number: 0799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
	Special for fire-	protective equipment fighters	:	Evacuate area. In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6	ACCIDENTAL RELE	ASE	E MEASURES	
Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
	Enviror	nmental precautions	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spill- cannot be contained.</li> </ul>		akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	container for dispo Avoid dispersal of with compressed a Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the cl determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

### SECTION 7. HANDLING AND STORAGE

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 Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>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 assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> </ul>



### **Daptomycin Injection Formulation**

Version 4.1	Revision Date: 30.09.2023	SDS Number: 650799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016		
		The effective op engineering cor appropriate deg	ated clothing before re-use. beration of a facility should include review of atrols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.		
Conditions for safe storage			<ul> <li>Keep in properly labeled containers.</li> <li>Store in accordance with the particular national regulations.</li> </ul>		
Materials to avoid		: Do not store wit	Do not store with the following product types: Strong oxidizing agents		

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components CAS-No. Value type Control parame-Basis (Form of ters / Permissible exposure) concentration 103060-53-3 TWA 800 µg/m3 (OEB Daptomycin Internal 2) Use feasible engineering controls to minimize exposure to **Engineering measures** 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 Respiratory protection If adequate local exhaust ventilation is not available or : exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Filter type Particulates type : Hand protection Material Chemical-resistant gloves : Eye protection : Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Skin and body protection Work uniform or laboratory coat. : **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

#### Ingredients with workplace control parameters

Appearance	:	lyophilized cake
Color	:	light brown
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4.5 - 5



## **Daptomycin Injection Formulation**

Vers 4.1	sion	Revision Date: 30.09.2023		S Number: 1799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016	
	Melting	point/freezing point	:	No data available		
	Initial boiling point and boiling range Flash point		:	No data available		
			:	Not applicable		
	Evapor	ation rate	:	No data available		
	Flammability (solid, gas)		:	May form explosive dust-air mixture during processing, handling or other means.		
	Flamma	ability (liquids)	:	No data available	•	
	Upper explosion limit / Upp flammability limit		:	No data available		
		explosion limit / Lower ability limit	:	No data available		
	Vapor p	oressure	:	No data available		
	Relative	e vapor density	:	No data available	•	
	Relative	e density	:	No data available		
	Density		:	No data available		
	Solubili Wat	ity(ies) ter solubility	:	No data available		
	Partitio octanol	n coefficient: n-	:	Not applicable		
		nition temperature	:	No data available		
	Decom	position temperature	:	No data available	•	
	Viscosi Visc	ty cosity, kinematic	:	No data available		
	Explosi	ive properties	:	Not explosive		
	Oxidizii	ng properties	:	The substance or	mixture is not classified as oxidizing.	
	Particle	e size	:	No data available		

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing,



ersion 1	Revision Date: 30.09.2023	SDS Number: 650799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016			
tions		handling or other means. Can react with strong oxidizing agents.				
Incon Haza produ		<ul> <li>Heat, flames and sparks. Avoid dust formation.</li> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>				
<b>Infor</b> Inhala Skin o Inges	contact					
Acute	e toxicity lassified based on avail	able information.				
	corrosion/irritation lassified based on avail	able information.				
<u>Com</u>	ponents:					
<b>Dapt</b> Speci Resu		: Rabbit : Mild skin irritat	ion			
	ous eye damage/eye ir lassified based on avail					
Com	ponents:					
<b>Dapt</b> Speci Resu		: Rabbit : Mild eye irritati	on			
Resp	iratory or skin sensiti	zation				
-	sensitization lassified based on avail	able information.				
<b>Respiratory sensitization</b> Not classified based on available information.						
	<b>n cell mutagenicity</b> lassified based on avail	able information.				
Components:						
-	omycin: toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) ve			



30.09.2023		0S Number: 0799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016	
		Test Type: Chror Result: negative	mosome aberration test in vitro	
			o mammalian cell gene mutation test use lymphoma cells	
		Test Type: DNA damage and repair, unscheduled DNA thesis in mammalian cells (in vitro) Result: negative		
Genotoxicity in vivo		cytogenetic assa Species: Mouse	malian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection	
		Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Hamster Application Route: Intraperitoneal injection Result: negative		
assified based on availa				
oonents:				
omycin:				
s on fertility	:	Species: Rat Application Rout Fertility: NOAEL:	ty/early embryonic development e: Intravenous injection 150 mg/kg body weight s on fertility.	
Effects on fetal development		Species: Rat Application Route Developmental T	yo-fetal development e: Intravenous injection oxicity: NOAEL: 75 mg/kg body weight icant adverse effects were reported	
		Species: Rabbit Application Route Developmental T	yo-fetal development e: Intravenous injection oxicity: NOAEL: 75 mg/kg body weight icant adverse effects were reported	
	nogenicity assified based on availa oductive toxicity assified based on availa <u>conents:</u> omycin: is on fertility	nogenicity assified based on available oductive toxicity assified based on available <u>ponents:</u> omycin: is on fertility	Result: negative Test Type: In vitr Test system: mo Result: negative Test Type: DNA thesis in mamma Result: negative toxicity in vivo : Test Type: Mam cytogenetic assa Species: Mouse Application Rout Result: negative Test Type: Unsc mammalian liver Species: Hamste Application Rout Result: negative nogenicity assified based on available information. ponents: pmycin: is on fertility : Test Type: Fertilit Species: Rat Application Rout Fertility: NOAEL: Result: No effect is on fetal development : Test Type: Embr Species: Rat Application Rout Fertility: NOAEL: Result: No effect is on fetal development : Test Type: Embr Species: Rat Application Rout Developmental T Result: No signifi	

### STOT-single exposure

Not classified based on available information.



## **Daptomycin Injection Formulation**

rsion	Revision Date: 30.09.2023	SDS Number: 650799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016								
STOT-repeated exposure May cause damage to organs (muscle, Kidney, Nervous system) through prolonged or repeate exposure in contact with skin. Components: Daptomycin:											
								Target Assess	Organs sment		y, Nervous system mage to organs through prolonged or repeated
								Repea	ted dose toxicity		
Compo	onents:										
Daptor	nycin:										
Exposu	_	: Dog : 20 mg/kg : 40 mg/kg : Intravenous : 3 Months : Skeletal muscl	e								
	- ation Route ure time	: Monkey : 10 mg/kg : Intravenous : 1 Months : No significant :	adverse effects were reported								
Exposi	ation Route ure time Organs	: Dog : Intravenous : 28 Days : Skeletal muscl : muscle twitching	e, Nervous system ng								
Exposu		: Juvenile dog : 50 mg/kg : Intravenous : 28 Days : Skeletal muscl	e, Nervous system								
-	tion toxicity ssified based on availa	able information.									
	ence with human exp										
-	onents:										
Daptor											
-	al Information	: Symptoms: Ra	sh, Diarrhea, vaginitis								



### **Daptomycin Injection Formulation**

Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
4.1		650799-00017	Date of first issue: 02.05.2016
SECTION	12. ECOLOGICAL IN	NFORMATION	

### Ecotoxicity No data available

### Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

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

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

### NOM-002-SCT

Not regulated as a dangerous good

### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable



### **Daptomycin Injection Formulation**

Version 4.1	Revision Date: 30.09.2023	SDS Number: 650799-00017	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
	ntial chemical products cing capsules, tablets		
<b>The i</b> AICS	• •	duct are reported i : not determine	<b>n the following inventories:</b> d
DSL		: not determine	d
IECS	C	: not determine	d

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

Revision Date	:	30.09.2023
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

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/





Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	650799-00017	Date of first issue: 02.05.2016

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8