



Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

SECTION 1. IDENTIFICATION

Product name	:	Daptomycin Injection Formulation					
Manufacturer or supplier's	Manufacturer or supplier's details						
Company name of supplier	:	Merck & Co., Inc					
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@merck.com					
Recommended use of the chemical and restrictions on use							

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR
1910.1200)
Combustible dust

Specific target organ toxicity : Category 2 (muscle, Kidney, Nervous system) - repeated exposure (Dermal)

GHS label elements

Hazard pictograms :	
Signal Word :	Warning
Hazard Statements :	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H373 May cause damage to organs (muscle, Kidney, Nervous system) through prolonged or repeated exposure in contact with skin.
Precautionary Statements :	Prevention: P260 Do not breathe dust. Response:
	P314 Get medical attention if you feel unwell.
	Disposal: P501 Dispose of contents and container to an approved waste disposal plant.





Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)		
Daptomycin	103060-53-3	>= 90 - <= 100		
Actual concentration is withheld as a trade secret				

Actual concentration is withheld as a trade secret

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.
In case of skin contact	:	Get medical attention if symptoms occur. 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. 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	:	May cause damage to organs through prolonged or repeated exposure in contact with skin.
delayed		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.



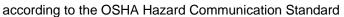


Daptomycin Injection Formulation

Vers 6.1	sion	Revision Date: 09/30/2023		9S Number: 0804-00018	Date of last issue: 04/04/2023 Date of first issue: 05/02/2016	
	Hazard ucts	ous combustion prod-	:	Carbon oxides		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	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	
	Special for fire-	protective equipment fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
SEC	CTION 6.	ACCIDENTAL RELE	ASI	EMEASURES		
	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).		
	Environmental precautions		:	Retain and dispos	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 disper Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces	

SECTION 7. HANDLING AND STORAGE

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
		assessment
		Minimize dust generation and accumulation.





Daptomycin Injection Formulation

Version	Revision Date: 09/30/2023	SDS Number:	Date of last issue: 04/04/2023
6.1		650804-00018	Date of first issue: 05/02/2016
	litions for safe storage rials to avoid	Keep away fro Take precautio Take care to p environment. Keep in prope Store in accord	er closed when not in use. Im heat and sources of ignition. In the sources against static discharges. In the spills, waste and minimize release to the rly labeled containers. In the particular national regulations. With the following product types: Ing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3			
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3			
	5 mg/m³ Value type (Fo Basis: OSHA 2	• •	: TWA (respirable fra	ction)
		• • •	oot : TWA (respirable fra	ction)
Dust, nuisance dust and par- ticulates	oar- 10 mg/m³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL			
	5 mg/m³ Value type (Form of exposure): PEL (respirable du Basis: CAL PEL			t fraction)
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible	Basis

		(Form of exposure)	ters / Permissible concentration		
Daptomycin	103060-53-3	3 TWA	800 µg/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 equipr	nent				
Respiratory protection			ventilation is recommer		

maintain vapor exposures below recommended limits. Where





Daptomycin Injection Formulation

Version 6.1	Revision Date: 09/30/2023	SDS Number: 650804-00018	Date of last issue: 04/04/2023 Date of first issue: 05/02/2016	
Hond	protoction	unknown, ap Follow OSH use NIOSH/ by air purifyi hazardous c supplied res release, exp circumstanc	concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.	
	protection aterial	: Chemical-re	sistant gloves	
Eye p	rotection	If the work e mists or aero Wear a face	: 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	
	and body protection one measures	 Work uniform If exposure the eye flushing working place When using Wash contain The effective engineering appropriate endineering 	Work uniform or laboratory coat. 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 contaminated 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.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	lyophilized cake
Color	:	light brown
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4.5 - 5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.





Daptomycin Injection Formulation

Ver 6.1	sion	Revision Date: 09/30/2023		S Number: 804-00018	Date of last issue: 04/04/2023 Date of first issue: 05/02/2016
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	1
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol Autoigr	/water hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty sosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
		ng properties	:		mixture is not classified as oxidizing.
	Particle	size	:	No data available	

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, handling 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.





Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Components:

Daptomycin:

Species	:	Rabbit
Result	:	Mild skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Daptomycin:

Species	:	Rabbit
Result	:	Mild eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

Daptomycin:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
		Result: negative

Test Type: Chromosome aberration test in vitro Result: negative

Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative

Test Type: DNA damage and repair, unscheduled DNA syn-



Daptomycin Injection Formulation

Version 6.1	Revision Date: 09/30/2023	SDS Number: 650804-00018	Date of last issue: 04/04/2023 Date of first issue: 05/02/2016				
		thesis in mamn Result: negativ	nalian cells (in vitro) e				
Gend	otoxicity in vivo	cytogenetic ass Species: Mous Application Rou Result: negativ	e ute: Intraperitoneal injection e scheduled DNA synthesis (UDS) test with er cells in vivo				
		•	ute: Intraperitoneal injection				
		t of this product pres	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.				
OSH		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.					
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
•	roductive toxicity classified based on avail	able information.					
Com	ponents:						
Dapt	tomycin:						
Effec	cts on fertility	Species: Rat Application Rot	tility/early embryonic development ute: Intravenous injection L: 150 mg/kg body weight cts on fertility.				
Effec	cts on fetal development	Species: Rat Application Roy Developmental	bryo-fetal development ute: Intravenous injection Toxicity: NOAEL: 75 mg/kg body weight ificant adverse effects were reported				
		Species: Rabb Application Ro Developmental	bryo-fetal development it ute: Intravenous injection Toxicity: NOAEL: 75 mg/kg body weight ificant adverse effects were reported				

according to the OSHA Hazard Communication Standard



Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (muscle, Kidney, Nervous system) through prolonged or repeated exposure in contact with skin.

Components:

Daptomycin:

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

Repeated dose toxicity

Components:

Dap	tomycin:
~	

Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:	Dog 20 mg/kg 40 mg/kg Intravenous 3 Months Skeletal muscle
Species:NOAEL:Application Route:Exposure time:Remarks:	Monkey 10 mg/kg Intravenous 1 Months No significant adverse effects were reported
Species:Application Route:Exposure time:Target Organs:Symptoms:	Dog Intravenous 28 Days Skeletal muscle, Nervous system muscle twitching
Species:LOAEL:Application Route:Exposure time:Target Organs:	Juvenile dog 50 mg/kg Intravenous 28 Days Skeletal muscle, Nervous system

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Daptomycin:

General Information

: Symptoms: Rash, Diarrhea, vaginitis





Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

SECTION 12. ECOLOGICAL INFORMATION

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

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
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

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

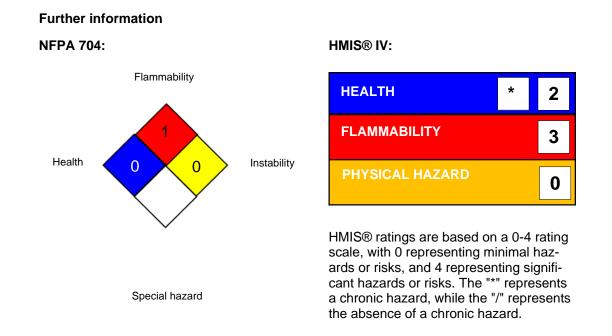
according to the OSHA Hazard Communication Standard



Daptomycin Injection Formulation

Version 6.1	Revision Date: 09/30/2023	SDS Nu 650804-		Date of last issue: 04/04/2023 Date of first issue: 05/02/2016		
	SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.					
	ARA 302 Extremely Hazar is material does not contai			eshold Planning Quantity a section 302 EHS TPQ.		
SA	RA 311/312 Hazards		bustible dust	gan toxicity (single or repeated exposure)		
SA	NRA 313	knov	vn CAS numl	s not contain any chemical components with pers that exceed the threshold (De Minimis) stablished by SARA Title III, Section 313.		
US	State Regulations					
Ре	Pennsylvania Right To Know Daptomycin			103060-53-3		
Th	The ingredients of this product are reported in the following inventories:					
AI	CS	: not o	letermined			
DS	SL	: not o	letermined			
IEC	CSC	: not o	letermined			

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

CAL PEL : California permissible exposure limits for chemical contami-



according to the OSHA Hazard Communication Standard

Daptomycin Injection Formulation

Version 6.1	Revision Date: 09/30/2023	SDS Number: 650804-00018	Date of last issue: 04/04/2023 Date of first issue: 05/02/2016
OSHA	x Z-3	•	Article 107) onal Exposure Limits (OSHA) - Table Z-3 Min-
CAL PEL / PEL OSHA Z-3 / TWA		eral Dusts : Permissible ex : 8-hour time we	

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-ments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

Revision Date

: 09/30/2023

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





Daptomycin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
6.1	09/30/2023	650804-00018	Date of first issue: 05/02/2016

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.

US / Z8