

Amoxicillin Trihydrate Paste Formulation

Versi 4.0	ion	Revision Date: 2024/07/06		S Number: 73175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16			
1. PR	1. PRODUCT AND COMPANY IDENTIFICATION							
I	Produc	t name	:	Amoxicillin Trihy	drate Paste Formulation			
I	Manufa	acturer or supplier's c	letai	ils				
(Compa	ny	:	MSD				
,	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065			
-	Teleph	one	:	908-740-4000				
I	Emerge	ency telephone number	r:	1-908-423-6000				
I	E-mail	address	:	EHSDATASTEW	/ARD@msd.com			
I	Recom	mended use of the cl	nem	ical and restriction	ons on use			
		mended use tions on use	:	Veterinary produ Not applicable	ct			

2. HAZARDS IDENTIFICATION

GHS Classification Respiratory sensitisation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 3
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. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing vapours.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	2373175-00017	Date of first issue: 2018/01/16

P273 Avoid release to the environment. P284 Wear respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P391 Collect spillage.

Disposal:

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

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

•		
Chemical name	CAS-No.	Concentration (% w/w)
Amoxicillin Trihydrate	61336-70-7	>= 0.25 -< 2.5

4. 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.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	
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 allergy or asthma symptoms or breathing difficul- ties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).
Protection of first-aiders	:	
Notes to physician	:	Treat symptomatically and supportively.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	2373175-00017	Date of first issue: 2018/01/16

5. FIREFIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	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. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE



Version 4.0	Revision Date: 2024/07/06	SDS Number: 2373175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
Loca	nical measures I/Total ventilation ce on safe handling	CONTROLS/F : Use only with : Avoid breathin Do not swallow Avoid contact Avoid prolong Handle in acco practice, base sessment Keep containe Already sensit to asthma, alle should consul tory irritants o Take care to p	w. with eyes. ed or repeated contact with skin. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- er tightly closed. tised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with respira-
Conc	litions for safe storage	Keep tightly cl Store in accor	dance with the particular national regulations.
Mate	rials to avoid	: Do not store v Strong oxidizi	vith the following product types: ng agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Amoxicillin Trihydrate	61336-70-7	TWA	1 mg/m3 (OEB 1)	Internal
	Further information: RSEN			

Engineering measures	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.	
Personal protective equipment		
Respiratory protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Filter type	Combined particulates and organic vapour 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	з,



Version	Revision Date: 2024/07/06	SDS Number:	Date of last issue: 2024/04/06
4.0		2373175-00017	Date of first issue: 2018/01/16
	and body protection ene measures	 Wear a faceshie potential for dire aerosols. Work uniform or If exposure to ch eye flushing sys ing place. When using do n Wash contamina The effective op engineering con appropriate dego 	nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	colourless, to, white
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
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
Relative density	:	No data available



Vers 4.0	sion	Revision Date: 2024/07/06		S Number: 73175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
4.0	Partitic octano Auto-ig Decom Viscos Visco Explos	/ ity(ies) ter solubility n coefficient: n- l/water nition temperature	23 : : : : : :	No data available slightly soluble Not applicable No data available No data available No data available Not explosive	9 9 9
		ılar weight		No data available	-
		e characteristics	:	Not applicable	-
10.	STABIL	ITY AND REACTIVITY	ſ		
	Possib tions Conditi Incomp	cal stability ility of hazardous reac- ions to avoid patible materials lous decomposition		Stable under nor Can react with st None known. Oxidizing agents	rong oxidizing agents.
11.	тохісо		τιοι	N	
	Informa exposu	ation on likely routes of Ire	:	Inhalation Skin contact Ingestion Eye contact	
		toxicity		· • .	
	Not cla	ssified based on availa	able	information.	

Components:

Amoxicillin Trihydrate:

Acute oral toxicity

: LD50 (Rat): > 8,000 mg/kg

LD50 (Mouse): > 10,000 mg/kg



.0	Revision Date: 2024/07/06	SDS Number: 2373175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
П			<i>"</i>
		LD50 (Dog): >	• 3,000 mg/kg
Skin	corrosion/irritation		
Not cl	assified based on ava	ailable information.	
	us eye damage/eye		
	assified based on ava		
-	iratory or skin sensi	itisation	
	sensitisation assified based on ava	ailable information	
	iratory sensitisation		
-	-		hing difficulties if inhaled.
-	oonents:		C C
Amo	cicillin Trihydrate:		
Resul	t	: Sensitiser	
Rema	ırks		nsitisation by inhalation. on human evidence
Germ	cell mutagenicity		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
	cicillin Trihydrate:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Geno	toxicity in vivo		cronucleus test
		Species: Mou Result: negati	
		Test Type: Ro Species: Mou Result: negati	
II Carci	nogenicity		

Reproductive toxicity

Not classified based on available information.

Components:

Effects on fertility

Amoxicillin Trihydrate:

:	Test Type: Fertility
	Species: Rat
	Application Route: Oral



ersion .0	Revision Date: 2024/07/06	SDS Number: 2373175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
Effect ment	s on foetal develop-	Result: Reduce Remarks: Not of Test Type: Fert Species: Rat Application Roo Fertility: LOAEI Result: Reduce Remarks: Not of : Test Type: Dev Species: Rat Application Roo Developmental Result: No emb Test Type: Dev Species: Mous Application Roo Developmental Result: Some e based on anim Remarks: Not of Test Type: Dev Species: Rat Application Roo Developmental Result: Some e based on anim	classified due to inconclusive data. tility ute: Oral .: 500 mg/kg body weight ad fertility classified due to inconclusive data. relopment ute: Oral Toxicity: NOAEL: >= 1,000 mg/kg body weight oryo-foetal toxicity relopment e ute: Oral Toxicity: LOAEL: 200 mg/kg body weight evidence of adverse effects on development, al experiments. classified due to inconclusive data. relopment
Not cl	- single exposure assified based on avai - repeated exposure		
Not cl	assified based on avai		
	oonents:		
Rema	ticillin Trihydrate: Irks	: Not classified c	lue to inconclusive data.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Amox	cicillin Trihydrate:		
Speci Applic		: Rat : Oral : 6 Months	



Version 4.0	Revision Date: 2024/07/06	SDS Number: 2373175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
Rema	arks	: No significant	adverse effects were reported
	cation Route sure time	: Dog : Oral : 6 Months : No significant	adverse effects were reported
Not c	ration toxicity lassified based on avail		
-	rience with human ex	posure	
	ponents:		
Amo: Inges	xicillin Trihydrate: stion	flatulence, ski	ausea, Vomiting, Abdominal pain, Diarrhoea, n rash, Breathing difficulties y produce an allergic reaction.
2. ECOL	OGICAL INFORMATIC	N	
Ecot	oxicity		
	ponents:		
	xicillin Trihydrate:		
	ity to fish	Exposure time	sius auratus (goldfish)): 0.035 mg/l e: 96 h D Test Guideline 203
Toxic plants	ity to algae/aquatic s	: NOEC (green Exposure time	algae): 530 mg/l e: 72 h
		EC50 (Synecl 0.0022 mg/l Exposure time	hococcus leopoliensis (blue-green algae)): e: 96 h
		NOEC (blue-ç Exposure time	green algae): 0.0057 mg/l e: 72 h
	ctor (Acute aquatic tox-	: 100	
icity) M-Fa toxici	ctor (Chronic aquatic ty)	: 1	
Persi	istence and degradabi	lity	
Com	ponents:		
Amo	xicillin Trihydrate:		
Biode	egradability	: Result: Readi Biodegradatic Exposure time	



Version 4.0	Revision Date: 2024/07/06		DS Number: 73175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
			Method: OECD T	est Guideline 301B
	accumulative potential			
	nponents:			
	oxicillin Trihydrate: accumulation	:	Remarks: Bioacc	umulation is unlikely.
Part	ition coefficient: n- nol/water		log Pow: -0.124	est Guideline 107
No c	bility in soil data available			
Othe	er adverse effects			
<u>Con</u>	nponents:			
Res	oxicillin Trihydrate: ults of PBT and vPvB essment	:	Product does not	persistent, bioaccumulative, and toxic (PBT). contain substances which are very persis- accumulative (vPvB) at levels of 0.1% or
13. DISP	OSAL CONSIDERATION	NS		
Dier	oosal methods			
•	ste from residues	:		f waste into sewer.
Con	taminated packaging	:	Empty containers dling site for recy	cordance with local regulations. Is should be taken to an approved waste han- cling or disposal. Ispecified: Dispose of as unused product.
14. TRA	NSPORT INFORMATION	1		
Inte	rnational Regulations			
UN	RTDG number per shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labe	king group	:	(Amoxicillin Trih <u>y</u> 9 III 9 yes	ydrate)
	A-DGR			

10 / 13

: Environmentally hazardous substance, liquid, n.o.s.

: UN 3082

UN/ID No.

Proper shipping name



Version 4.0	Revision Date: 2024/07/06		DS Number: 73175-00017	Date of last issue: 2024/04/06 Date of first issue: 2018/01/16
			(Amoxicillin Trihy	/drate)
Clas	S	:	9	,
Pac	king group	:	111	
Labe		:	Miscellaneous	
Pacl aircr	king instruction (cargo aft)	:	964	
Pac	king instruction (passen- aircraft)	:	964	
	ironmentally hazardous	:	yes	
ІМП	G-Code			
	number		UN 3082	
	per shipping name	÷		ALLY HAZARDOUS SUBSTANCE, LIQUID,
	i inppnig name	•	N.O.S.	
			(Amoxicillin Trihy	drate)
Clas	S	:	9	,
Pac	king group	:		
Labe	els	:	9	
Ems	S Code	:	F-A, S-F	
Mari	ne pollutant	:	yes	
Trar	nsport in bulk according	a to	Annex II of MARP	OL 73/78 and the IBC Code
	applicable for product as	-		

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.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	2373175-00017	Date of first issue: 2018/01/16

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	2024/07/06
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/

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

SAFETY DATA SHEET



Amoxicillin Trihydrate Paste Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	2373175-00017	Date of first issue: 2018/01/16

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.

ID / EN