according to the Globally Harmonized System



# Amoxicillin Trihydrate Paste Formulation

	S Number:Date of last issue: 06.04.20243604-00017Date of first issue: 16.01.2018
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### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Amoxicillin Trihydrate Paste Formulation		
Manufacturer or supplier's d Company	eta :	ils MSD		
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207		
Telephone	:	+1-908-740-4000		
Emergency telephone number	:	+1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

### 2. HAZARDS IDENTIFICATION

#### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

#### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

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.

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Precautionary statements

#### **Prevention:**

2

P261 Avoid breathing vapours. 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 + P316 If experiencing respiratory symptoms: Get emergency medical help immediately. P391 Collect spillage.

#### Disposal:

: Mixture

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
Amoxicillin Trihydrate	61336-70-7	>= 0.25 - < 1

#### 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	:	Flush eyes with water as a precaution. 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 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	:	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).

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	Notes to	o physician	:	Treat symptomation	cally and supportively.
5. Fl	REFIGH	ITING MEASURES			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
		hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
		ous combustion prod-	:	Carbon oxides	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	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 firefi	protective equipment ghters	:		
6. AC	CCIDEN	TAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Environ	mental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regular Sections 13 and 1	a absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

### 7. HANDLING AND STORAGE

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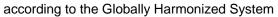
Versior 4.0	Revision Date: 06.07.2024	SDS Number: 2373604-00017	Date of last issue: 06.04.2024 Date of first issue: 16.01.2018	
Lo	chnical measures cal/Total ventilation lvice on safe handling	CONTROLS/PE : Use only with ac : Avoid breathing Do not swallow. Avoid contact w Avoid prolonged Handle in accor practice, based sessment Keep container Already sensitis to asthma, allerg should consult t tory irritants or s	ith eyes. I or repeated contact with skin. dance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. ed individuals, and those susceptible gies, chronic or recurrent respiratory disease, heir physician regarding working with respira-	
Co	onditions for safe storage			
Ma	aterials to avoid			

### 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 equipmer	nt
Filter type	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. 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, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a





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	and body protection	aerosols. : Work uniform or	·
Hygie	ne measures	flushing systems place. When using do r Wash contamina The effective op engineering cont appropriate dego	nemical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, pwning and decontamination procedures, e monitoring, medical surveillance and the ative controls.

### 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
Density	:	No data available
Solubility(ies)		

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Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity		<ul> <li>slightly soluble</li> <li>Not applicable</li> <li>No data availa</li> <li>No data availa</li> </ul>	able	
Ň	/iscosity, kinematic	: No data availa : Not explosive	able	
Oxi Mol Par	dizing properties ecular weight ticle characteristics ticle size			

### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

#### **11. TOXICOLOGICAL INFORMATION**

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

#### Acute toxicity

Not classified based on available information.

#### **Components:**

#### Amoxicillin Trihydrate:

Acute oral toxicity	: LD50 (Rat): > 8,000 mg/kg	
	LD50 (Mouse): > 10,000 mg	/kg
	LD50 (Dog): > 3,000 mg/kg	

#### Skin corrosion/irritation

Not classified based on available information.

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ersion D	Revision Date: 06.07.2024	SDS Number: 2373604-00017	Date of last issue: 06.04.2024 Date of first issue: 16.01.2018				
	us eye damage/eye						
Not cl	lassified based on ava	ailable information.					
Respiratory or skin sensitisation							
Skin	sensitisation						
Not cl	lassified based on ava	ailable information.					
Resp	iratory sensitisation						
May o	cause allergy or asthn	na symptoms or breath	ing difficulties if inhaled.				
Com	oonents:						
Amox	kicillin Trihydrate:						
Resu	-	: Sensitiser					
Rema	arks		sitisation by inhalation.				
		largely based o	on human evidence				
Germ	cell mutagenicity						
	lassified based on ava	ailable information.					
Com	oonents:						
Amo	kicillin Trihydrate:						
	toxicity in vitro	: Test Type: Bac	terial reverse mutation assay (AMES)				
	,	Result: negativ					
Geno	toxicity in vivo	: Test Type: Mic	ronucleus test				
		Species: Mous	e				
		Result: negativ	e				
		Test Type: Roo	lent dominant lethal test (germ cell) (in viv				
		Species: Mous	e				
		Result: negativ	e				

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

#### Components:

### Amoxicillin Trihydrate:

Effects on fertility	: Test Type: Fertility Species: Rat Application Route: Oral Fertility: NOAEL: 200 mg/kg body weight Result: Reduced fertility Remarks: Not classified due to inconclusive data.
	Test Type: Fertility Species: Rat Application Route: Oral Fertility: LOAEL: 500 mg/kg body weight

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ersion .0	Revision Date: 06.07.2024		Number: 604-00017	Date of last issue: 06.04.2024 Date of first issue: 16.01.2018
			esult: Reduce emarks: Not	ed fertility classified due to inconclusive data.
Effect ment	Effects on foetal develop- ment			
		Sp Ap De Re ba	esult: Some e sed on anim	e
		Sp Ap De Re	esult: Reduce	
II STOT	- single exposure			
	assified based on ava		ormation.	
	<ul> <li>repeated exposure assified based on ava</li> </ul>		ormation.	
<u>Com</u>	oonents:			
Amox Rema	<b>kicillin Trihydrate:</b> arks	: No	ot classified o	due to inconclusive data.
Repe	ated dose toxicity			
Com	oonents:			
Amo	cicillin Trihydrate:			
Speci Applio	es cation Route sure time		al Months	adverse effects were reported
Speci Applic Expos Rema	cation Route sure time		al Months	adverse effects were reported
Asnir	ation toxicity			

### Aspiration toxicity

Not classified based on available information.

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-	rience with human exp	osi	ire	
	ponents:			
Amo	xicillin Trihydrate: stion	:	flatulence, skin	usea, Vomiting, Abdominal pain, Diarrhoea, rash, Breathing difficulties produce an allergic reaction.
12. ECOL	OGICAL INFORMATIO	N		
Ecote	oxicity			
Com	ponents:			
Amo	xicillin Trihydrate:			
Toxic	ity to fish	:	Exposure time:	us auratus (goldfish)): 0.035 mg/l 96 h 9 Test Guideline 203
Toxic plants	ity to algae/aquatic s	:	NOEC (green Exposure time:	algae): 530 mg/l 72 h
			EC50 ( Synech 0.0022 mg/l Exposure time:	ococcus leopoliensis (blue-green algae)): 96 h
			NOEC ( blue-g Exposure time:	reen algae): 0.0057 mg/l 72 h
M-Fa icity)	ctor (Acute aquatic tox-	:	100	
M-Fa toxici	ctor (Chronic aquatic ty)	:	1	
II Persi	istence and degradabil	ity		
Com	ponents:	-		
	xicillin Trihydrate:			
	egradability	:	Biodegradation Exposure time:	
Bioa	ccumulative potential			
Com	ponents:			
	xicillin Trihydrate:			
Bioac	cumulation	:	Remarks: Bioa	ccumulation is unlikely.
Partit	ion coefficient: n-	:	log Pow: -0.124	4

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octan	ol/water		Method: OECD	Test Guideline 107
	lity in soil			
No da	ata available			
Othe	r adverse effects			
<u>Com</u>	oonents:			
Amo	kicillin Trihydrate:			
	Its of PBT and vPvB ssment	:	Product does n	ot persistent, bioaccumulative, and toxic (PBT ot contain substances which are very persis- ioaccumulative (vPvB) at levels of 0.1% or

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.

### 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Amoxicillin Trihydrate)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.		UN 3082
	:	
Proper shipping name	•	Environmentally hazardous substance, liquid, n.o.s. (Amoxicillin Trihydrate)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDC Code		-
IMDG-Code		LIN 2002
UN number	:	UN 3082

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Prop	per shipping name	N.O.S	RONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, S. pxicillin Trihydrate)
Class		: 9	
Packing group		: 111	
Labels		: 9	
Ems	S Code	: F-A, S	S-F
Mar	ine pollutant	: yes	

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### 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

#### 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	:	06.07.2024
Further information		
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-

 compile the Safety Data
 eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

 Sheet
 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 : 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 Sys-

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tem; 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

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.

IN / EN