

Versi 4.1	ion	Revision Date: 28.09.2024		S Number: 1155-00020	Date of last issue: 06.07.2024 Date of first issue: 19.12.2016	
	TION 1 Produc	: IDENTIFICATION t name	:	Amoxicillin Trihyo	drate Solid Formulation	
	Manufa	acturer or supplier's d	letai	ls		
	Compa		:	Intervet Australia Pty Limited (trading as MSD Animal Health		
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
	Teleph	one	:	1 800 033 461		
	Emerge	ency telephone number	· :	Poisons Informat	ion Centre: Phone 13 11 26	
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com	
	Recommended use of the ch		nemi	ical and restrictio	ons on use	
		mended use tions on use	:	Veterinary produce Not applicable	ct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Respiratory sensitisation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	Prevention: P261 Avoid breathing dust. 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.
		Disposal:
		P501 Dispose of contents/ container to an approved waste



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disposal plant.

Other hazards which do not result in classification

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

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Amoxicillin Trihydrate	61336-70-7	>= 60 -<= 100

SECTION 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.
In appa of our contact		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.
ii Swallowed	•	Get medical attention if symptoms occur.
		Rinse mouth thoroughly with water.
Most important symptoms	:	May cause allergy or asthma symptoms or breathing difficul-
and effects, both acute and		ties if inhaled.
delayed		Excessive exposure may aggravate preexisting asthma and
-		other respiratory disorders (e.g. emphysema, bronchitis, reac-
		tive airways dysfunction syndrome).
		Contact with dust can cause mechanical irritation or drying of the skin.
		Dust contact with the eyes can lead to mechanical irritation.
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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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Unsui media	table extinguishing	:	None known.	
Speci fightin	fic hazards during fire- Ig	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
Speci ods	fic 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 d
	al protective equipment	:		e, wear self-contained breathing apparatus. ective equipment.
Hazch	nem Code	:	2Z	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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. 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	:	Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. 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. Clean up remaining materials from spill with suitable absor- bent. 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-



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SECTION	7. HANDLING AND ST	Sections 13 and certain local or	ulations are applicable. d 15 of this SDS provide information regarding national requirements.
Tech	nical measures	causing an exp Provide adequa	v may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding r inert atmospheres.
	l/Total ventilation ce on safe handling	 Use only with a Do not breathe Do not swallow Avoid contact w Avoid prolonge Handle in accorpractice, based sessment Keep container Already sensitist to asthma, aller should consult tory irritants or Minimize dust or Keep away from Take precaution 	dequate ventilation. dust. vith eyes. d or repeated contact with skin. rdance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. sed individuals, and those susceptible rgies, chronic or recurrent respiratory disease, their physician regarding working with respira-
Hygie	ene measures	: If exposure to c flushing system place. When using do Wash contamin The effective of engineering con appropriate deg	themical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls
Conc	litions for safe storage	: Keep in properl Keep tightly clo	y labelled containers.
Mate	rials to avoid		th the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
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		exposure)	concentration		
Amoxicillin Trihydrate	61336-70-7	TWA	1 mg/m3 (OEB 1)	Internal	
	Further inform	ation: RSEN			
Engineering measures	: Use feasible e	engineering cont	rols to minimize expo	osure to	
	design and op				
Personal protective equipment	nt				
Respiratory protection	sure assessm	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Filter type Hand protection	: Particulates ty	vpe			
Material	: Chemical-resi	stant gloves			
Eye protection	If the work en mists or aeros Wear a faces	vironment or act sols, wear the ap nield or other full	shields or goggles. ivity involves dusty co propriate goggles. face protection if the he face with dusts, m	ere is a	
Skin and body protection	: Work uniform	or laboratory co	at.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	5.5 - 7.5 (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
,	Vapour	pressure	:	Not applicable	
ļ	Relative	e vapour density	:	Not applicable	
ļ	Relative	e density	:	No data available	
l	Density	,	:	No data available)
:	Solubili Wat	ty(ies) er solubility	:	1.43 g/l	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
I	Decom	position temperature	:	No data available)
,	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
I	Explosi	ve properties	:	Not explosive	
	Ovidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
				No data available	
		lar weight	:	INO UALA AVAIIADIE	
	Particle Particle	e characteristics e size	:	No data available	9

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, han- dling 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.



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SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation 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.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Amoxicillin Trihydrate:

Result	:	Sensitiser
Remarks	:	May cause sensitisation by inhalation.
		largely based on human evidence

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Amoxicillin Trihydrate:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse



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		Result: negative	Э
		Test Type: Rod Species: Mouse Result: negative	
	nogenicity lassified based on ava	ailable information.	
•	oductive toxicity lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
	xicillin Trihydrate: ts on fertility	: Test Type: Ferti Species: Rat	ility
		Result: Reduce	200 mg/kg body weight
		Result: Reduce	ite: Oral .: 500 mg/kg body weight
Effect ment	ts on foetal develop-		
		Result: Some e based on anima	e ite: Oral Toxicity: LOAEL: 200 mg/kg body weight vidence of adverse effects on development,
		Result: Reduce weight gain	



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Not cl STOT	 single exposure assified based on avaination repeated exposure assified based on avaination 	e	
Com	oonents:		
Amo x Rema	kicillin Trihydrate: arks	: Not classified d	ue to inconclusive data.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Amo	cicillin Trihydrate:		
	cation Route sure time	: Rat : Oral : 6 Months : No significant a	dverse effects were reported
	cation Route sure time	: Dog : Oral : 6 Months : No significant a	dverse effects were reported
-	ation toxicity assified based on av	ailable information.	
Expe	rience with human e	exposure	
<u>Com</u>	oonents:		
Amo	cicillin Trihydrate:		
Inges	tion	flatulence, skin	usea, Vomiting, Abdominal pain, Diarrho rash, Breathing difficulties produce an allergic reaction.

Components:

Amoxicillin Trihydrate:		
Toxicity to fish	:	LC50 (Carassius auratus (goldfish)): 0.035 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to algae/aquatic plants	:	NOEC (green algae): 530 mg/l Exposure time: 72 h





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		EC50 (Syne 0.0022 mg/l Exposure tin	chococcus leopoliensis (blue-green algae)): ne: 96 h
		NOEC (blue Exposure tin	-green algae): 0.0057 mg/l ne: 72 h
Persi	stence and degradab	ility	
Com	ponents:		
Amo	xicillin Trihydrate:		
Biode	egradability	Biodegradati Exposure tin	
Bioad	ccumulative potential		
<u>Comp</u>	ponents:		
Amo	xicillin Trihydrate:		
Bioac	cumulation	: Remarks: Bi	oaccumulation is unlikely.
	ion coefficient: n- ol/water	: log Pow: -0. Method: OE	124 CD Test Guideline 107
	lity in soil		
	ata available		
	r adverse effects		
	ponents:		
Resu	xicillin Trihydrate: Its of PBT and vPvB ssment	Product does	s not persistent, bioaccumulative, and toxic (PB s not contain substances which are very persis- / bioaccumulative (vPvB) at levels of 0.1% or

SECTION 13. DISPOSAL CONSIDERATIONS

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.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Amoxicillin Trihydrate)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.
		(Amoxicillin Trihydrate)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	956
aircraft)		
Packing instruction (passen-	:	956
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Amoxicillin Trihydrate)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

ADG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amoxicillin Trihydrate)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Environmentally hazardous	:	yes



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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.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix- ture				
Therapeutic Goods (Poisons Standard) Instrument	:	publication to check for s	ber allocated (Please use the original specific uses, specific conditions or national apply for this chemical)	
Prohibition/Licensing Require	men	its :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.	
The components of this product are reported in the following inventories:				
AICS	:	not determined		
DSL	:	not determined		
IECSC	:	not determined		

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	28.09.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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 con-

SAFETY DATA SHEET



Amoxicillin Trihydrate Solid Formulation

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centration; 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.

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