

Revision Date: 19.05.2022				st issue: 29.04.2022 st issue: 02.01.2019
dentification				New Zealand information Trade name: Depocillin
ict name	: Benzylpenicillin Formulation		ormulation	ACVM registration number: A004256 HSNO approval number: HSR100757 24 hour freephone emergency contact
facturer or supplier's d	etai	ls		0800 764 766 (0800 POISON)
bany	:	MSD		0800 243 622 (0800 CHEMCALL)
ess	:			e Bag 908
hone	:	+1-908-740-400	)	
gency telephone number	:	+1-908-423-600	)	
il address	:	EHSDATASTEW	/ARD@mso	d.com
mmended use of the ch	nem	ical and restriction	ons on use	•
mmended use	:	Veterinary produ	ct	
ictions on use	:	Not applicable		
	19.05.2022 Identification Inct name facturer or supplier's d any iss hone gency telephone number I address mmended use of the ch mmended use	19.05.2022       392         Identification	19.05.2022       3928960-00014         Identification       Enzylpenicillin F         facturer or supplier's details       sany         any       MSD         iss       33 Whakatiki Stree         upper Hutt - New         hone       +1-908-740-4000         gency telephone number       +1-908-423-6000         I address       EHSDATASTEW         mmended use of the chemical and restriction         nmended use       Veterinary produ         ctions on use       :	19.05.2022       3928960-00014       Date of fir         Identification       Identification       Identification         act name       :       Benzylpenicillin Formulation         facturer or supplier's details       Image: second sec

### Section 2: Hazard identification

GHS Classification		
Respiratory sensitisation		Category 1
Skin 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	:	H317 May cause an allergic skin reaction. 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	:	<b>Prevention:</b> P261 Avoid breathing mist or vapours.



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		the workplace. P273 Avoid rele P280 Wear prote	ated work clothing should not be allowed out of ase to the environment. ective gloves. viratory protection.
		P304 + P340 IF keep comfortabl P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	skin irritation or rash occurs: Get medical ad- experiencing respiratory symptoms: Call a ER/ doctor. ske off contaminated clothing and wash it before
		<b>Disposal:</b> P501 Dispose o disposal plant.	f contents/ container to an approved waste

### Other hazards which do not result in classification

None known.

#### Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture		
Components				
Chemical name			CAS-No.	Concentration (% w/w)
Benzylpenicillin			61-33-6	>= 10 -< 30

#### Section 4: First-aid measures

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>
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.



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а		portant symptoms ects, both acute and l	:	May cause an alle May cause allergy ties if inhaled. Excessive expose other respiratory	oughly with water. ergic skin reaction. y or asthma symptoms or breathing difficul- ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac-	
Р	Protecti	on of first-aiders	:	<ul> <li>tive airways dysfunction syndrome).</li> <li>First Aid responders should pay attention to self-protection and use the recommended personal protective equipm when the potential for exposure exists (see section 8).</li> </ul>		
N	Notes to	o physician	:	Treat symptomati	cally and supportively.	
Sectio	on 5: F	ire-fighting measure	S			
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Jnsuita nedia	ble extinguishing	:	None known.		
S		hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.	
Н	• •	ous combustion prod-	:	Carbon oxides Metal oxides		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers.	

		Remove undamaged containers from fire area if it is safe to do
		SO.
		Evacuate area.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.
for firefighters		Use personal protective equipment.
Hazchem Code	:	3Z

#### 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. 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 contain- ment 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 absor- bent.



/ersion .0	Revision Date: 19.05.2022	SDS Number: 3928960-00014	Date of last issue: 29.04.2022 Date of first issue: 02.01.2019
		posal of this employed in mine which r Sections 13	onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
Section 7	Handling and storage	9	
Techr	nical measures		ring measures under EXPOSURE /PERSONAL PROTECTION section.
Local	/Total ventilation		adequate ventilation.
	e on safe handling		n skin or clothing.
	0		ing mist or vapours.
		Do not swall	
		Avoid contac	
			cordance with good industrial hygiene and safety ed on the results of the workplace exposure as-
			er tightly closed.
		to asthma, a should consu	itised individuals, and those susceptible lergies, chronic or recurrent respiratory disease, ilt their physician regarding working with respira- or sensitisers.
		Take care to environment	prevent spills, waste and minimize release to the
Hygie	ne measures		o chemical is likely during typical use, provide eyeems and safety showers close to the working
		When using	do not eat, drink or smoke. d work clothing should not be allowed out of the
		Wash contar The effective engineering appropriate o industrial hyg	ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.
Condi	itions for safe storage	: Keep in prop Keep tightly	erly labelled containers. closed.
Mater	ials to avoid		ordance with the particular national regulations. with the following product types: ring agents

### Section 8: Exposure controls/personal protection

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal



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<b>U</b>		Further information: RSEN, DSEN Wipe limit 100 μg/100 cm2 Internal
Engi	neering measures	<ul> <li>Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).</li> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>Laboratory operations do not require special containment.</li> </ul>
Perse	onal protective equip	ment
Fi	iratory protection	<ul> <li>If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>
	protection aterial	: Chemical-resistant gloves
Eye p	protection	<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>
Skin	and body protection	: Work uniform or laboratory coat.

### Section 9: Physical and chemical properties

Appearance	:	suspension
Colour	:	white
Odour	:	No data available
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 applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

### SAFETY DATA SHEET



## **Benzylpenicillin Formulation**

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		explosion limit / Lower bility limit	:	No data available	
,	Vapour	pressure	:	No data available	)
	Relative	e vapour density	:	No data available	)
	Relative	e density	:	No data available	•
	Density		:	No data available	)
	Solubilit Wate	ry(ies) er solubility	:	soluble	
	Partitior octanol/	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decomp	position temperature	:	No data available	9
,	Viscosit Visc	y osity, kinematic	:	No data available	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	ig properties	:	The substance or	mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	)
	Particle	size	:	Not applicable	

#### Section 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.

#### Section 11: Toxicological information

Exposure routes	: Inhalation
	Skin contact
	Ingestion
	Eye contact

#### Acute toxicity

Not classified based on available information.



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	Comp	onents:			
	-	Ipenicillin:			
	Acute	oral toxicity	:	LD50 (Rat): 8,000	mg/kg
				LD50 (Mouse): >	5,000 mg/kg
		toxicity (other routes of stration)	:	500 mg/kg : Intraperitoneal	
				LD50 (Mouse): 32 Application Route	
	••••••	orrosion/irritation Issified based on availa	ble	information.	
		is eye damage/eye irri issified based on availa			
	Respir	atory or skin sensitis	atio	n	
	Skin sensitisation May cause an allergic skin reaction. Respiratory sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components:				difficulties if inhaled
	Benzy Test T	<b>Ipenicillin:</b> ype ure routes s		Local lymph node Dermal Mouse Weak sensitizer	assay (LLNA)
	Remar			Strong sensitizer	m similar materials
	Remar	KS	:	Based on human	experience.
	Chron	ic toxicity			
		<b>cell mutagenicity</b> ssified based on availa	ble	information.	
	Comp	onents:			
	-	<b>lpenicillin:</b> cell mutagenicity - sment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ



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	nogenicity								
	Not classified based on available information.								
-	Reproductive toxicity Not classified based on available information.								
		allable information.							
<u>Com</u>	ponents:								
Benz	ylpenicillin:								
Effect	ts on fertility	: Test Type: Fer Species: Mous Result: No effe	se						
		Test Type: Fer Species: Rat Result: No effe	-						
		Test Type: Fer Species: Rabb Result: No effe	vit						
Effect	ts on foetal develop-	: Test Type: De	velopment						
ment		Species: Mous							
		Result. No elle	ects on foetal development						
		Test Type: De	velopment						
		Species: Rat	ects on foetal development						
		Result. No ene							
		Test Type: De							
		Species: Rabb Result: No effe	ort ects on foetal development						
STO	r - single exposure								

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

#### Benzylpenicillin:

Inhalation

: Symptoms: Allergic reactions, Abdominal pain, bronchospasm, skin rash



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Section 12	2: Ecological information	on		
Ecoto	xicity			
<u>Comp</u>	oonents:			
Benzy	/lpenicillin:			
Toxici	ty to fish	:	Exposure time: Method: OECD	nchus mykiss (rainbow trout)): > 100 mg/l 96 hrs Test Guideline 203 d on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: Method: OECD	magna (Water flea)): 3.6 mg/l 48 hrs Test Guideline 202 d on data from similar materials
Toxici plants	ty to algae/aquatic	:	100 mg/l Exposure time: Method: OECD	celis subcapitata (freshwater green alga)): > 72 hrs Test Guideline 201 d on data from similar materials
			mg/l Exposure time: Method: OECD	ocelis subcapitata (freshwater green alga)): 50 72 hrs Test Guideline 201 d on data from similar materials
			Exposure time: Method: OECD	en algae): 0.74 mg/l 72 hrs Test Guideline 201 d on data from similar materials
			Exposure time: Method: OECD	een algae): 0.14 mg/l 72 hrs Test Guideline 201 d on data from similar materials
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	ty to microorganisms	:	Method: OECD	
			Method: OECD	3 h piration inhibition Test Guideline 209 d on data from similar materials



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stence and degradabi	ity					
onents:						
<b>/Ipenicillin:</b> gradability	:	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 70.10 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> <li>Remarks: Based on data from similar materials</li> </ul>				
cumulative potential						
onents:						
/ <b>Ipenicillin:</b> on coefficient: n- ol/water	:	log Pow: 1.83				
<b>ity in soil</b> ta available						
<b>adverse effects</b> ta available						
: Disposal considerat	ion	S				
sai methods from residues minated packaging	:	Empty containe dling site for rec	ccordance with local regulations. rs should be taken to an approved waste han cycling or disposal. specified: Dispose of as unused product.			
: Transport information	on					
ational Regulations						
<b>DG</b> Imber r shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID			
ng group s	:	(Benzyiperiiciii) 9 III 9	")			
<b>DGR</b> No. r shipping name	:		/ hazardous substance, liquid, n.o.s. n)			
ng group s ng instruction (cargo	:	9 III Miscellaneous 964	··· <i>y</i>			
	19.05.2022 stence and degradabil ponents: /lpenicillin: gradability cumulative potential ponents: /lpenicillin: pon coefficient: n- pl/water ity in soil ta available adverse effects ta available 3: Disposal considerat sal methods e from residues minated packaging :: Transport informatic ational Regulations DG mber r shipping name ag group DGR No. r shipping name	19.05.2022       39         stence and degradability       soments:         vipenicillin:       :         gradability       :         cumulative potential       .         soments:       .         vipenicillin:       .         onents:       .         vipenicillin:       .         on coefficient: n-       .         oh/water       .         ity in soil       .         ta available       .         adverse effects       .         ta available       .         sal methods       .         efrom residues       .         minated packaging       .         cong group       .         ag group       .         and group       .	19.05.2022       3928960-00014         stence and degradability       stence and degradability         stence and degradability       stence and degradability         stence and degradability       sidegradation:         cumulative potential       memory items:         onents:       memory items:         duester       log Pow: 1.83         sidearrow and able       adverse effects         a available       sidearrow items:         adverse effects       sidearrow items:         a from residues       :       Dispose of in ad         afform residues       :       Dispose of in ad         afform residues       :       Dispose of in ad         <			



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Q	Packing instruction (passen- ger aircraft) Environmentally hazardous	:	964 yes	
l	<b>MDG-Code</b> JN number <sup>P</sup> roper shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (Benzylpenicillin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
l I	Class Packing group Labels EmS Code Marine pollutant		9 III 9 F-A, S-F yes	

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

Not applicable for product as supplied.

#### **National Regulations**

#### NZS 5433

UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzylpenicillin)
Class Packing group Labels	:	9     9
Hazchem Code	:	3Z

#### 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 mixture

#### **HSNO Approval Number**

not allocated

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

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

#### Section 16: Other information

#### Further information



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	Sources of key data used to compile the Safety Data Sheet		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- uropa.eu/
	Items where changes have be document by two vertical line		ous version are highlighted in the body of this

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

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.

NZ / EN