according to the Globally Harmonized System



### Benzylpenicillin / Dihydrostreptomycin Sulphate / Nafcillin Formulation

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Date of last issue: 30.09.2023 Date of first issue: 30.10.2020

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Benzylpenicillin / Dihydrostreptomycin Sulphate / Nafcillin For- mulation							
Manufacturer or supplier's de	Manufacturer or supplier's details								
Company	:	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 ch	em	ical 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
Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (ear, Kidney, inner ear)
Aspiration hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 4

### GHS label elements

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Hazaı	rd pictograms		
Signa	l word	: Danger	
Hazaı	d statements	H317 May cau H334 May cau difficulties if inl H373 May cau through prolon H401 Toxic to	use damage to organs (ear, Kidney, inner ear) uged or repeated exposure if swallowed.
Preca	utionary statements	P260 Do not b P271 Use only P272 Contami the workplace P273 Avoid re P280 Wear pro	ntainer tightly closed. reathe mist or vapours. v outdoors or with adequate ventilation. nated work clothing should not be allowed out lease to the environment. otective gloves/ protective clothing. spiratory protection.
		piratory sympt P302 + P352 I P304 + P340 I keep comforta P319 Get med P331 Do NOT P333 + P317 I	► P316 IF SWALLOWED or if experiencing resons: Get emergency medical help immediatel F ON SKIN: Wash with plenty of water. F INHALED: Remove person to fresh air and ble for breathing. lical help if you feel unwell. induce vomiting. f skin irritation or rash occurs: Get medical help Take off contaminated clothing and wash it betom
		<b>Storage:</b> P403 Store in P405 Store loo	a well-ventilated place. cked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

according to the Globally Harmonized System



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### Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oil	8012-95-1	>= 70 - < 90
Benzylpenicillin	61-33-6	>= 10 - < 20
Sodium [2S-(2α,5α,6β)]-6-[[(2-ethoxy-1- naphthyl)carbonyl]amino]-3,3-dimethyl-7-oxo-4- thia-1-azabicyclo[3.2.0]heptane-2-carboxylate	985-16-0	>= 1 - < 5
Dihydrostreptomycin sulphate	5490-27-7	>= 1 - < 5
Fatty acids, C14-26, aluminum salts	97404-28-9	>= 1 - < 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.
In case of skin conta	act ·	Get medical attention. In case of contact, immediately flush skin with soap and plenty
		of water.
		Remove contaminated clothing and shoes.
		Get medical attention.
		Wash clothing before reuse.
		Thoroughly clean shoes before reuse.
In case of eye conta	act :	Flush eyes with water as a precaution.
		Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting.
		If vomiting occurs have person lean forward.
		Call a physician or poison control centre immediately.
		Never give anything by mouth to an unconscious person.
Most important sym		May be fatal if swallowed and enters airways.
and effects, both ac delayed	ute and	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul-
uelayeu		ties if inhaled.
		May cause damage to organs through prolonged or repeated exposure if swallowed.
		Excessive exposure may aggravate preexisting asthma and
		other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).
Protection of first-aid	ders :	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.
5. FIREFIGHTING MEAS	SURES	
<b>•</b> • • • • • • • • • • • • • • • • • •		
Suitable extinguishir	ng media :	Water spray

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

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Dry chemical

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	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting	c hazards during fire- I	:	Exposure to comb	oustion products may be a hazard to health.
	Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides	
	Specific extinguishing meth- ods		:	Use extinguishing measures that are appropriate to local ci cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.	
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.

### 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	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g. by containment or oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
Methods and materials for containment and cleaning up	<ul> <li>Soak up with inert absorbent material.</li> <li>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.</li> <li>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.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

### 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
	•	Cee Engineering measures ander EXT COOKE

SAFETY DATA SHEET according to the Globally Harmonized System



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	cal/Total ventilation vice on safe handling	<ul> <li>Use only with a</li> <li>Do not get on s</li> <li>Do not breathe</li> <li>Do not swallow.</li> <li>Avoid contact w</li> <li>Wash skin thoro</li> <li>Handle in accor</li> <li>practice, based</li> <li>sessment</li> <li>Keep container</li> <li>Already sensitis</li> <li>to asthma, aller</li> <li>should consult t</li> <li>tory irritants or s</li> <li>Do not eat, drin</li> </ul>	mist or vapours. with eyes. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. sed individuals, and those susceptible gies, chronic or recurrent respiratory disease, heir physician regarding working with respira-
Co	nditions for safe storage	••••••••••	
Ma	terials to avoid	Store in accord	ance with the particular national regulations. h the following product types:

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Paraffin oil	8012-95-1	TWA (Mist)	5 mg/m3	IN OEL
		STEL (Mist)	10 mg/m3	IN OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal
	Further inform	ation: RSEN, DS	SEN	
		Wipe limit	100 µg/100 cm2	Internal
Sodium [2S-(2α,5α,6β)]-6-[[(2- ethoxy-1- naphthyl)carbonyl]amino]-3,3- dimethyl-7-oxo-4-thia-1- azabicyclo[3.2.0]heptane-2- carboxylate	985-16-0	TWA	0.7 mg/m3 (OEB 2)	Internal
Dihydrostreptomycin sulphate	5490-27-7	TWA	0.4 mg/m3 (OEB 2)	
	Further inform	ation: OTO		
		Wipe limit	Not required	



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Fatty salts	acids, C14-26, alumin	um	97404-28-9	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3 (Aluminium)	ACGIH
Engi	neering measures	:	technologies t quick connect All engineerin design and op protect produc	to control airborr ions). g controls shoul perated in accord cts, workers, and	controls and manufac ne concentrations (e. d be implemented by dance with GMP prin d the environment. require special conta	g., drip-less / facility ciples to
Pers	onal protective equip	ment				
	iratory protection Iter type	:	sure assessm ommended gi	ient demonstrate uidelines, use re	tilation is not availabl es exposures outside spiratory protection. ganic vapour type	
Hand	protection aterial	:	Chemical-resi			
	protection	:	If the work en mists or aeros Wear a facesl potential for d aerosols.	vironment or act sols, wear the ap hield or other ful irect contact to t	shields or goggles. ivity involves dusty c propriate goggles. I face protection if the he face with dusts, n	ere is a
Skin	and body protection	:	Work uniform	or laboratory co	at.	
Hygie	ene measures	:	flushing syste place. When using d Contaminated workplace. Wash contam The effective engineering c appropriate de industrial hygi	ms and safety s lo not eat, drink o l work clothing s inated clothing k operation of a fa ontrols, proper p egowning and do	hould not be allowed before re-use. icility should include bersonal protective ed econtamination proce medical surveillance	vorking out of the review of quipment, edures,

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	white to off-white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available

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	Melting	point/freezing point	:	No data available	
	Initial bo range	biling point and boiling	:	No data available	
	Flash po	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		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	ty(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decomp	position temperature	:	No data available	1
	Viscosit Visco	y osity, dynamic	:	300 - 16,000 mPa	a.s
	Visco	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 Particle	characteristics size	:	Not applicable	

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### **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.

SDS Number:

### **11. TOXICOLOGICAL INFORMATION**

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

### Acute toxicity

Not classified based on available information.

#### **Components:**

#### Paraffin oil:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

### **Benzylpenicillin:**

Acute oral toxicity		LD50 (Rat): 8,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Mouse): 3,500 mg/kg Application Route: Intraperitoneal
		LD50 (Mouse): 329 mg/kg Application Route: Intravenous

#### Sodium [2S-(2α,5α,6β)]-6-[[(2-ethoxy-1-naphthyl)carbonyl]amino]-3,3-dimethyl-7-oxo-4thia-1-azabicyclo[3.2.0]heptane-2-carboxylate:

Acute oral toxicity :	LDLo (Rat): > 5,000 mg/kg
Acute toxicity (other routes of : administration)	LD50 (Dog): 633 mg/kg Application Route: Intravenous
	LD50 (Mouse): 1,000 mg/kg Application Route: Intravenous
	LD50 (Rat): 1,100 mg/kg

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11			Application Pou	ute: Intravenous
			Application Rot	ne. mravenous
			LD50 (Rat): 2,8 Application Rou	00 mg/kg ute: Intramuscular
			LD50 (Rat): 1,2 Application Rou	00 mg/kg ute: Intraperitoneal
Dihye	drostreptomycin sul	ohate:		
	e oral toxicity			00 - 25,000 mg/kg
			LD50 Oral (Mou	use): 30,000 mg/kg
Fatty	acids, C14-26, alum	inum	salts:	
	e oral toxicity	:	LD50 (Rat, fem	ale): > 2,000 mg/kg
				Test Guideline 423 d on data from similar materials
Acute inhalation toxicity	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time:	
			Test atmosphered Method: OECD	
 Skin	corrosion/irritation			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
Para	ffin oil:			
Spec		:	Rabbit	-
Resu	IL	•	No skin irritatio	1
Fatty	acids, C14-26, alum	inum	salts:	
Spec		:		uman epidermis (RhE)
Meth	od arks	:	OECD Test Gu Based on data	ideline 431 from similar materials
Kenia			reconstructed h	uman epidermis (RhE)
Speci	ies	•		
Spec Metho	od	:	OECD Test Gu	
Spec	od	:	OECD Test Gu	ideline 439 from similar materials

Not classified based on available information.

### Components:

Paraffin oil:

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Species Result

: Rabbit : No eye irritation

### Fatty acids, C14-26, aluminum salts:

Species Method Result Remarks	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation
Remarks	: Based on data from similar materials

### Respiratory or skin sensitisation

### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

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

### Components:

#### Benzylpenicillin:

Test Type Exposure routes Species Result	<ul> <li>Local lymph node assay (LLNA)</li> <li>Dermal</li> <li>Mouse</li> <li>Weak sensitizer</li> </ul>
Test Type Exposure routes Species Result Remarks	<ul> <li>Maximisation Test</li> <li>Dermal</li> <li>Guinea pig</li> <li>positive</li> <li>Based on data from similar materials</li> </ul>
Result Remarks	<ul><li>Strong sensitizer</li><li>Based on human experience.</li></ul>

#### Fatty acids, C14-26, aluminum salts:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative
Test Type Exposure routes Species Method Result Remarks	: Based on data from similar materials

### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Benzylpenicillin:

Germ cell mutagenicity - :	Weight of evidence does not support classification as a germ
Assessment	cell mutagen.

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# Sodium [2S- $(2\alpha, 5\alpha, 6\beta)$ ]-6-[[(2-ethoxy-1-naphthyl)carbonyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

### Dihydrostreptomycin sulphate:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro
-	Test system: Human lymphocytes
	Result: negative

### Fatty acids, C14-26, aluminum salts:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

### **Components:**

# Sodium [2S- $(2\alpha, 5\alpha, 6\beta)$ ]-6-[[(2-ethoxy-1-naphthyl)carbonyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate:

Carcinogenicity - Assess- : Weight of evidence does not support classification as a carment cinogen

#### Dihydrostreptomycin sulphate:

:	Rat
:	Oral
:	2 Years
:	5 mg/kg body weight
:	negative
	:

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### Benzylpenicillin:

Effects on fertility	: Test Type: Fertility Species: Mouse Result: No effects on fert			
		Test Type: Fertility Species: Rat		

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		Result: No effe	cts on fertility
		Test Type: Fert Species: Rabbi Result: No effe	ility t
Effect ment	s on foetal develop-	: Test Type: Dev Species: Mouse Result: No effe	
		Test Type: Dev Species: Rat Result: No effe	elopment cts on foetal development
		Test Type: Dev Species: Rabbi Result: No effe	
		[[(2-ethoxy-1-naphthy ptane-2-carboxylate:	/l)carbonyl]amino]-3,3-dimethyl-7-oxo-4-
	s on foetal develop-	: Test Type: Emb Species: Rat Application Rou General Toxicit Developmental	oryo-foetal development Ite: Oral y Maternal: NOAEL: 4,000 mg/kg body weight Toxicity: NOAEL: 4,000 mg/kg body weight foetal abnormalities, No maternal effects
	drostreptomycin sulp		
Effect ment	s on foetal develop-	Species: Rabbi Application Rou	
		Species: Guine Application Rou	oryo-foetal development a pig ite: Intramuscular y Maternal: LOAEL: 100 - 200 mg/kg body
		weight Developmental Result: Materna	Toxicity: NOAEL: 10 mg/kg body weight al toxicity observed., Embryotoxic effects and on the offspring were detected.
II Fatty	acids, C14-26, alumi	inum salts:	
	s on fertility	: Test Type: Con reproduction/de Species: Rat	nbined repeated dose toxicity study with the evelopmental toxicity screening test
		Application Rou Method: OECD	ite: Ingestion Test Guideline 422 e

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Effects on foetal develop-	:	Test Type: Reproduction/Developmental toxicity screening
ment		test
		Species: Rat
		Application Route: Ingestion
		Method: OECD Test Guideline 414
		Result: negative
		Remarks: Based on data from similar materials

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

May cause damage to organs (ear, Kidney, inner ear) through prolonged or repeated exposure if swallowed.

### **Components:**

### Dihydrostreptomycin sulphate:

Assessment

: Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

### Components:

### Paraffin oil:

Species LOAEL Application Route Exposure time	:	Rat, female
LÕAEL	:	161 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

### Dihydrostreptomycin sulphate:

Species LOAEL Application Route Exposure time Target Organs Symptoms	:	Guinea pig 40 mg/kg Oral 90 d ear hearing loss
Species LOAEL Application Route Exposure time Target Organs Symptoms	:	Cat 100 mg/kg Oral 60 d ear ataxia, hearing loss, Reduced body weight
Species LOAEL Application Route Exposure time Target Organs Symptoms	:	Cat 300 mg/kg Oral 21 d ear ataxia, hearing loss, Reduced body weight

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### Fatty acids, C14-26, aluminum salts:

Species	: Rat
	: >= 1000 mg/kg
Application Route Exposure time Remarks	: Ingestion
Exposure time	: 42 Days
Remarks	: Based on data from similar materials

SDS Number:

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

### **Components:**

Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Experience with human exposure

#### **Components:**

#### **Benzylpenicillin:**

Inhalation Symptoms: Allergic reactions, Abdominal pain, bron-: chospasm, skin rash

Sodium [2S-(2α,5α,6β)]-6-[[(2-ethoxy-1-naphthyl)carbonyl]amino]-3,3-dimethyl-7-oxo-4thia-1-azabicyclo[3.2.0]heptane-2-carboxylate:

Skin contact :	Target Organs: Skin
	Symptoms: Dermatitis
	Target Organs: Respiratory system
	Symptoms: Sensitisation
Ingestion :	Target Organs: Gastrointestinal tract
-	Symptoms: Diarrhoea
	Target Organs: Respiratory system
	Symptoms: anaphylaxis
	Target Organs: Kidney
	Symptoms: nephritis
	Target Organs: Liver
	Symptoms: Damage
Dihydrostreptomycin sulphate:	
	Currentemes Fruthermon bearing less Neurose Deah Versiting

General Information :		Symptoms: Erythema, hearing loss, Nausea, Rash, Vomiting, Headache, hypotension
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### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

### **Components:**

Paraffin oil:

Toxicity to fish

: LL50 (Scophthalmus maximus (turbot)): > 100 mg/l

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				6 h Vater Accommodated Fraction on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Test substance: V	sa (Calanoid copepod)): > 100 mg/l 3 h Vater Accommodated Fraction on data from similar materials
Toxic plants	ity to algae/aquatic	:	Exposure time: 72 Test substance: V	ma costatum (marine diatom)): > 100 mg/l 2 h Vater Accommodated Fraction on data from similar materials
			Exposure time: 72 Test substance: V	nema costatum (marine diatom)): > 1 mg/l 2 h Vater Accommodated Fraction on data from similar materials
II Benz	ylpenicillin:			
	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	EC50 ( Raphidoco 100 mg/l Exposure time: 72 Method: OECD T	
			NOEC ( Raphidoo mg/l Exposure time: 72 Method: OECD T	
			EC50 ( blue-green Exposure time: 72 Method: OECD T	
			NOEC ( blue-gree Exposure time: 72 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxic	ity to microorganisms	:	EC50: > 500 mg/l Exposure time: 3 Test Type: Respir	h

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024	SDS Number: 7213862-00010	Date of last issue: 30.09.2023 Date of first issue: 30.10.2020
		NOEC: 5 mg/l Exposure time Test Type: Res	D Test Guideline 209 : 3 h spiration inhibition D Test Guideline 209
Persi	istence and degradab	ility	
Com	ponents:		
Benz	ylpenicillin:		
	egradability	Biodegradation Exposure time	
Fatty	v acids, C14-26, alumir	num salts:	
Biode	egradability	Biodegradation Exposure time Method: OECE	
Bioa	ccumulative potential		
Com	ponents:		
Para	ffin oil:		
	tion coefficient: n- nol/water	: log Pow: > 4 Remarks: Calc	ulation
Fatty	v acids, C14-26, alumir	num salts:	
	tion coefficient: n- nol/water	: log Pow: > 7 Remarks: Calc	ulation
	i <b>lity in soil</b> ata available		
••	<b>r adverse effects</b> ata available		
13. DISPO	OSAL CONSIDERATIO	NS	
Disp	osal methods		
Wast	e from residues		e of waste into sewer.
Conta	aminated packaging	: Empty contain	accordance with local regulations. ers should be taken to an approved waste han- cycling or disposal.

according to the Globally Harmonized System



### Benzylpenicillin / Dihydrostreptomycin Sulphate / Nafcillin Formulation

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If not otherwise specified: Dispose of as unused product.

### **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 IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

### **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:

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

#### **16. OTHER INFORMATION**

Revision Date	:	28.09.2024
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	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH IN OEL	:	USA. ACGIH Threshold Limit Values (TLV) India. Permissible levels of certain chemical substances in work environment.		
ACGIH / TWA	:	8-hour, time-weighted average		



### Benzylpenicillin / Dihydrostreptomycin Sulphate / Nafcillin Formulation

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IN OEL / TWA IN OEL / STEL Time-Weighted Average Concentration (TWA) (8 hrs.)Short-term exposure Limit STEL (15 min)

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.

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