



Gentamicin / Cloxacillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
3.6	09/28/2024	1936034-00018	Date of first issue: 09/11/2017

SECTION 1. IDENTIFICATION

Product name	:	Gentamicin / Cloxacillin Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations					
Respiratory sensitization	:	Category 1			
Skin sensitization	:	Category 1			
Reproductive toxicity	:	Category 1A			
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 diffi- culties if inhaled. H360D May damage the unborn child.			
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapors. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, protective clothing, eye protection and face protection. P284 Wear respiratory protection. 			

according to the Hazardous Products Regulations



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		P304 + P340 IF keep comfortab P308 + P313 IF P333 + P313 If tion. P342 + P311 If tor.	ON SKIN: Wash with plenty of water. INHALED: Remove person to fresh air and le for breathing. exposed or concerned: Get medical attention. skin irritation or rash occurs: Get medical atten- experiencing respiratory symptoms: Call a doc- ake off contaminated clothing and wash it before
		Storage: P405 Store lock Disposal: P501 Dispose o disposal plant.	ked up. of contents and container to an approved waste

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

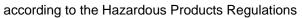
Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Peanut oil	No data availa- ble	8002-03-7	90 - 95
1,2,3-Propanetriyl tris(12- hydroxyoctadecanoate)	Octadecanoic acid, 12- hydroxy-, 1,1',1"-(1,2,3- propanetriyl) ester	139-44-6	3.5
cloxacillin	No data availa- ble	61-72-3	2.2
Gentamicin	No data availa- ble	1403-66-3	0.5

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek med advice.	
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	





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In case of skin contact		 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 c	ase of eye contact	: Flush eyes wit	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
If sv	vallowed	: If swallowed, I Get medical a	DO NOT induce vomiting.		
Most important symptoms and effects, both acute and delayed		: May cause an May cause all difficulties if in May damage t Excessive exp other respirato	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage the unborn child. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).		
	tection of first-aiders es to physician	: First Aid responsion and use the re when the pote	bonders should pay attention to self-protection, becommended personal protective equipment ntial for exposure exists (see section 8). natically and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sulfur compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. ng advice (see section 7) and personal ent recommendations (see section 8).
	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. Jover a wide area (e.g., by containment or e of contaminated wash water. hould be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the cl determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ag materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust
Advice on safe handling	 ventilation. Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

according to the Hazardous Products Regulations



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Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Peanut oil	8002-03-7	TWAEV (Mist)	10 mg/m ³	CA QC OEL
1,2,3-Propanetriyl tris(12- hydroxyoctadecanoate)	139-44-6	TWA	10 mg/m ³	CA AB OEL
		TWA (Inhal- able)	10 mg/m ³	CA BC OEL
		TWA (Res- pirable)	3 mg/m ³	CA BC OEL
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m ³	ACGIH
cloxacillin	61-72-3	TWA	100 µg/m3 (OEB 2)	Internal
	Further inform	nation: RSEN, D	SEN	
		Wipe limit	100 µg/100 cm2	Internal
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
	Further inform	nation: OTO		

 Engineering measures
 :
 Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).

 All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

 Laboratory operations do not require special containment.

 Personal protective equipment

 Respiratory protection
 :

 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

: Combined particulates and organic vapor type

Hand protection		
Material	: Chen	nical-resistant gloves

Filter type

according to the Hazardous Products Regulations



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	rotection	If the work environmists or aerosols Wear a faceshie potential for direct aerosols.	esses with side shields or goggles. Conment or activity involves dusty conditions, s, wear the appropriate goggles. Id or other full face protection if there is a ct contact to the face with dusts, mists, or
	and body protection ne measures	eye flushing syst working place. When using do r Contaminated w workplace. Wash contamina The effective ope engineering cont appropriate dego	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white
Odor	:	No data available
Odor 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
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available

according to the Hazardous Products Regulations



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I	Relativ	e density	:	No data available	9
I	Density	,	:	No data available	9
:	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Autoigr	nition temperature	:	No data available	9
I	Decom	position temperature	:	No data available	9
Ň	Viscosi Visc	ty cosity, kinematic	:	No data available	9
I	Explosi	ve properties	:	Not explosive	
(Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
-	Particle Particle	e characteristics e 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

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg
		Method: Calculation method

according to the Hazardous Products Regulations



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	<u>Compo</u>	nents:			
	Peanut	oil:			
	Acute or	al toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Remarks: Based o	
	Acute de	ermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
	1,2,3-Pr	opanetriyl tris(12-hy	dro	xyoctadecanoate)	:
	Acute or	al toxicity	:	LD50 (Rat): > 5,00 Remarks: Based o	00 mg/kg on data from similar materials
	Acute de	ermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
	cloxacil	lin:			
	Acute or	al toxicity	:	LD50 (Rat): 5,000	mg/kg
				LD50 (Mouse): 5,0	000 mg/kg
	Acute to administ	xicity (other routes of ration)	:	LD50 (Mouse): 1,1 Application Route:	
				LD50 (Mouse): 91 Application Route:	
				LD50 (Mouse): 1,5 Application Route:	
				LD50 (Rat): 1,660 Application Route:	
				LD50 (Rat): 4,200 Application Route:	
	Gentam	icin:			
		al toxicity	:	LD50 (Rat): 8,000	- 10,000 mg/kg
				LD50 (Mouse): 10	,000 mg/kg
	Acute in	halation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4 H Test atmosphere: Remarks: No mort	า
	Acute to administ	xicity (other routes of tration)	:	LD50 (Rat): 67 - 9 Application Route:	
				LD50 (Rat): 371 - Application Route:	

according to the Hazardous Products Regulations



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			o (Monkey) lication Rou	: 30 mg/kg te: Intravenous
-	corrosion/irritation			
	lassified based on ava	ailable infor	mation.	
	ponents:			
	ut oil:	D.I	1.14	
Spec Resu		: Rab	bit skin irritatior	
Rema				rom similar materials
1 2 2	Propagatrivitric(12	hydroxyoo	tadacanaa	
Spec	-Propanetriyl tris(12- نوم	: Rab		le).
Resu			skin irritatior	1
Rema	arks	: Bas	ed on data f	rom similar materials
cloxa	acillin:			
Rema	arks	: Not	classified d	ue to lack of data.
Gent	amicin:			
Spec		: Rab	bit	
Resu			l skin irritatio	on
Serio	ous eye damage/eye	irritation		
	lassified based on ava		mation.	
Com	ponents:			
Pean	ut oil:			
Spec		: Rab		
Resu			eye irritation	rom similar materials
Rema	arks	: Bas	ed on data i	rom similar materials
	-Propanetriyl tris(12-			te):
Spec		: Rab		
Resu Rema			eye irritation ed on data f	rom similar materials
<u>.</u>				
	acillin:	N 1 (
Rema	arks	: Not	classified di	ue to lack of data.
Gent	amicin:			
Spec		: Rab		
Resu	lt	: Milc	l eye irritatio	n

according to the Hazardous Products Regulations



Respiratory or skin sensitization Skin sensitization May cause an allergic skin reaction. Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components: cloxacillin: Routes of exposure : Dermal Assessment : Probability or evidence of skin sensitization in humans Result : positive Assessment : Probability of respiratory sensitization in humans based in animal testing Result : positive Assessment : positive Gentamicin: : Remarks : No data available Gentamicin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Result: negative Planut oil: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Eased on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result	rsion	Revision Date: 09/28/2024	SDS Number: 1936034-0001	
May cause an allergic skin reaction. Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components: cloxacillin: Routes of exposure : Dermal Assessment : Probability or evidence of skin sensitization in humans Result : positive Assessment : Probability of respiratory sensitization in humans based animal testing Result : positive Gentamicin: Remarks : No data available Gern cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OEC Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Remarks: Information given is based on data obtained fr similar substances.	Resp	iratory or skin sens	sitization	
May cause an allergic skin reaction. Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components: cloxacillin: Routes of exposure : Dermal Assessment : Probability or evidence of skin sensitization in humans Result : positive Assessment : Probability of respiratory sensitization in humans based animal testing Result : positive Gentamicin: Remarks : No data available Gern cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OEC Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin:	Skin	sensitization		
Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components: cloxacillin: Routes of exposure : Dermal Assessment :: Probability or evidence of skin sensitization in humans Result : positive Assessment :: Probability of respiratory sensitization in humans based in animal testing Result : positive Gentamicin: Remarks Remarks : No data available Gern cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result: negative Remarks: Based on data from similar materials Cloxacillin: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fresimilar substances. Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fresimilar substances. Genotoxicity in vitro : Test Type: Micronucle	-		n reaction.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Somponents: cloxacillin: Routes of exposure : Dermal Assessment :: Probability or evidence of skin sensitization in humans Result : positive Assessment :: Probability of respiratory sensitization in humans based in animal testing Result : positive Gentamicin: Remarks Remarks : No data available Gern cell mutagenicity No data available Mot classified based on available information. Components: Peanut oil: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: . Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fresimilar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fresimilar substan	-	-		
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cloxacillin: Routes of exposure : Dermal Assessment : Probability or evidence of skin sensitization in humans Result : positive Assessment : Probability of respiratory sensitization in humans based in animal testing Result : positive Assessment : positive Gentamicin: : positive Result : positive Gern cell mutagenicity Not classified based on available information. Components: : Peanut oil: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): : Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Result: negative : Remarks: Information given is based on data obtained for similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained for similar substances. Genotoxicity in vivo : Test T				
Routes of exposure : Dermal Assessment : Probability or evidence of skin sensitization in humans Result : positive Assessment : Probability of respiratory sensitization in humans based in animal testing Result : positive Gentamicin: : Remarks Remarks : No data available Gern cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr Sprotice: Mouse Result: negativ				
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Assessment : Probability of respiratory sensitization in humans based in animal testing Result : positive Gentamicin: Remarks : Remarks : No data available Germ cell mutagenicity Not data available Mot classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: : Centamicin given is based on data obtained fr similar substances.				or evidence of skin sensitization in numans
animal testing Result : positive Gentamicin: Remarks : No data available Germ cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Result: negati	Resu		. positivo	
Result : positive Gentamicin: Remarks : No data available Germ cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Remarks: Information given is based on data obtained fresimilar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fresimilar substances. Genotaxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fresimilar substances. Gentamicin: :	Asses	ssment		
Gentamicin: Remarks No data available Germ cell mutagenicity Not classified based on available information. Components: Peanut oil: Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Cloxacillin: Genotoxicity in vitro Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Cloxacillin: Genotoxicity in vitro Genotoxicity in vitro Test Type: Micronucleus test Species: Mouse Result: negative Result: negat	Dooul	14		ting
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Image: Result: negative 1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: :			vailable information	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: :	Com	ponents:	vailable information	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials cloxacillin: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: :	<u>Com</u> Pean	<u>oonents:</u> ut oil:	: Test Type	: Bacterial reverse mutation assay (AMES)
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cloxacillin: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances.	Comp Pean Geno 1,2,3-	oonents: ut oil: toxicity in vitro Propanetriyl tris(12	: Test Type: Result: ne 2-hydroxyoctadec : Test Type Method: O	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: : Test Type: Micronucleus test	Comp Pean Geno 1,2,3-	oonents: ut oil: toxicity in vitro Propanetriyl tris(12	: Test Type: Result: ne 2-hydroxyoctadeca : Test Type: Method: O Result: ne	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin: : Test Type: Micronucleus test	Comp Pean Geno 1,2,3-	oonents: ut oil: toxicity in vitro Propanetriyl tris(12	: Test Type: Result: ne 2-hydroxyoctadec: : Test Type: Method: O Result: ne	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative
Result: negative Remarks: Information given is based on data obtained fr Similar substances. Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr Species: Mouse Remarks: Information given is based on data obtained fr similar substances.	Com Pean Geno 1,2,3- Geno	oonents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro	: Test Type: Result: ne 2-hydroxyoctadec: : Test Type: Method: O Result: ne	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative
Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances.	Com Pean Geno 1,2,3- Geno	oonents: ut oil: toxicity in vitro Propanetriyl tris(12 toxicity in vitro	: Test Type: Result: ne 2-hydroxyoctadeca : Test Type: Method: O Result: ne Remarks:	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials
Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances.	Com Pean Geno 1,2,3- Geno	oonents: ut oil: toxicity in vitro Propanetriyl tris(12 toxicity in vitro	: Test Type: Result: ne 2-hydroxyoctadeca : Test Type: Method: O Result: ne Remarks: : Test Type: Result: ne	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative
Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin:	Com Pean Geno 1,2,3- Geno	oonents: ut oil: toxicity in vitro Propanetriyl tris(12 toxicity in vitro	: Test Type: Result: ne 2-hydroxyoctadeca : Test Type: Method: O Result: ne Remarks: : Test Type: Result: ne Result: ne Remarks:	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro
Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. Gentamicin:	Com Pean Geno 1,2,3- Geno	oonents: ut oil: toxicity in vitro Propanetriyl tris(12 toxicity in vitro	: Test Type: Result: ne 2-hydroxyoctadeca : Test Type: Method: O Result: ne Remarks: : Test Type: Result: ne Result: ne Remarks:	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro
Remarks: Information given is based on data obtained fr similar substances.	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro</pre>	 Test Type: Result: ne Pertors and the second s	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances.
similar substances. Gentamicin:	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro</pre>	 Test Type: Result: ne Pest Type: Method: O Result: ne Remarks: Test Type: Result: ne Remarks: similar sub Test Type: Species: N 	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances. : Micronucleus test <i>N</i> ouse
Gentamicin:	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro</pre>	 Test Type: Result: ne P-hydroxyoctadeca Test Type: Method: O Result: ne Remarks: Test Type: Result: ne Remarks: similar sub Test Type: Species: N Result: ne 	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances. : Micronucleus test <i>N</i> ouse gative
	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro</pre>	 Test Type: Result: ne P-hydroxyoctadeca Test Type: Method: O Result: ne Remarks: Test Type: Result: ne Remarks: similar sub Test Type: Species: M Result: ne Remarks: 	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances. : Micronucleus test <i>N</i> ouse gative Information given is based on data obtained fro
Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro •Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro</pre>	 Test Type: Result: ne P-hydroxyoctadeca Test Type: Method: O Result: ne Remarks: Test Type: Result: ne Remarks: similar sub Test Type: Species: M Result: ne Remarks: 	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances. : Micronucleus test <i>N</i> ouse gative Information given is based on data obtained fro
	Com Pean Geno 1,2,3- Geno cloxa Geno	<pre>ponents: ut oil: toxicity in vitro Propanetriyl tris(12 toxicity in vitro ncillin: toxicity in vitro toxicity in vitro</pre>	 Test Type: Result: ne P-hydroxyoctadeca Test Type: Method: O Result: ne Remarks: Test Type: Result: ne Remarks: similar sub Test Type: Species: M Result: ne Remarks: 	: Bacterial reverse mutation assay (AMES) gative anoate): : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative Based on data from similar materials : Bacterial reverse mutation assay (AMES) gative Information given is based on data obtained fro ostances. : Micronucleus test <i>N</i> ouse gative Information given is based on data obtained fro

according to the Hazardous Products Regulations



/ersion 3.6	Revision Date: 09/28/2024		S Number: 36034-00018	Date of last issue: 09/30/2023 Date of first issue: 09/11/2017
			Result: negative	
			Test Type: Chrom Result: equivocal	osome aberration test in vitro
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo) : Intravenous injection
	inogenicity classified based on availa	blo	information	
	ponents:	able	iniomation.	
	acillin:			
Rem		:	Not classified due	to lack of data.
Gent	tamicin:			
Carc ment	inogenicity - Assess- t	:	No data available	
Rep	roductive toxicity			
May	damage the unborn child	1.		
<u>Com</u>	ponents:			
clox	acillin:			
Effec	cts on fertility	:		-
Effec	ets on fetal development	:	Test Type: Develo Species: Rabbit Application Route Developmental To Result: No malform	
Gent	tamicin:			
Effec	cts on fertility	:	Species: Rat Fertility: NOAEL: 2	eneration reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported

according to the Hazardous Products Regulations



Effects on fetal development : Test Type: Embryo-fetal development Species: Rabbit Developmental Toxicity: NOAEL: 3.6 mg/kg body weight Result: No embryo-fetal toxicity. Test Type: Embryo-fetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 75 mg/kg body weight	
Result: Embryo-fetal toxicity. Test Type: Embryo-fetal development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Fetal mortality., No malformations were observed Test Type: Embryo-fetal development Species: Rat	
Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 50 mg/kg body weight Result: Fetal mortality., No malformations were observed	
Reproductive toxicity - As- : Positive evidence of adverse effects on development fron sessment human epidemiological studies.	า
STOT-single exposure Not classified based on available information. STOT-repeated exposure	
Not classified based on available information.	
Components:	
Gentamicin:	
Target Organs: Kidney, inner earAssessment: Causes damage to organs through prolonged or repeated exposure.	ł
Repeated dose toxicity	
<u>Components:</u>	
cloxacillin:	
Species : Rat	
LOAEL : 7,000 mg/kg Application Route : Intravenous	
Exposure time : 4 Weeks Symptoms : Hypoglycemia	
Gentamicin:	
Species : Dog	

according to the Hazardous Products Regulations



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Exp Targ	AEL lication Route osure time get Organs nptoms	 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Salivation 	
LÖA App Exp	cies AEL lication Route osure time get Organs	 Monkey 50 mg/kg Subcutaneous 3 Weeks Kidney, inner ear 	
LÖA App Exp	cies AEL lication Route osure time get Organs	 Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney, inner ear, Liver 	
NO/ LOA App Exp		: Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood	
NO/ LOA App Exp		: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney	
	iration toxicity classified based on avai	able information.	
Exp	erience with human ex	oosure	
<u>Cor</u>	nponents:		
Inha	cacillin: alation a contact	 Remarks: May cause sensitization of su Symptoms: Dermatitis Remarks: May irritate skin. 	sceptible persons.
	contact estion	 Remarks: May irritate eyes. Symptoms: May cause, Gastrointestinal 	

Gentamicin:

Ingestion

Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness

Remarks: May cause sensitization of susceptible persons.

:

according to the Hazardous Products Regulations

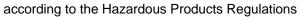


Gentamicin / Cloxacillin Formulation

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Peanut oil:		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 10,000 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
1,2,3-Propanetriyl tris(12-hyd	iro	xyoctadecanoate):
		LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
The first standard standard states		
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials
Gentamicin:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 86 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		LC50 (Americamysis): 30 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 10 µg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 1.5 μg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Anabaena flos-aquae (cyanobacterium)): 4.7 μg/l Exposure time: 72 h





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			Method: OECD	Test Guideline 201	
			Exposure time: 7	na flos-aquae (cyanobacterium)): 1.6 µg/l 72 h Test Guideline 201	
Тохіс	Toxicity to microorganisms		EC50: 288.7 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
Persi	stence and degradabi	ility			
Com	oonents:				
Genta	amicin:				
Biode	Biodegradability		 Result: rapidly degradable Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 314 		
Bioad	ccumulative potential				
Com	oonents:				
cloxa	cillin:				
	ion coefficient: n- ol/water	:	log Pow: 2.44		
Genta	amicin:				
	ion coefficient: n- ol/water	:	log Pow: < -2		
Mobi	lity in soil				
No da	ata available				
	r adverse effects				
No da	ata available				

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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

according to the Hazardous Products Regulations



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	number per shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE N.O.S. (Gentamicin)	, LIQUID,
Lab	king group	9 III 9 yes	
UN	A-DGR /ID No. per shipping name	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Gentamicin)	
Lat Pao	king group	9 III Miscellaneous 964	
Pao ger	king instruction (passen- aircraft) /ironmentally hazardous	964 yes	
UN	DG-Code number per shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE N.O.S. (Gentamicin)	, LIQUID,
Lat Em	king group	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.

Domestic regulation

TDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gentamicin)
Class	:	9
Packing group	:	III
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(Gentamicin)

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.





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SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			
IECSC	:	not determined			

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH		USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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 - Transporta-



according to the Hazardous Products Regulations

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tion 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

Sources of key data used to compile the Material 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/
Revision Date Date format	:	09/28/2024 mm/dd/yyyy

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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