

Version 9.1	Revision Date: 30.09.2023		S Number: 1596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016	
Section 1	: Identification				
Produ	uct name	:	Gentamicin / B	etamethasone Formulation	
Manu	ufacturer or supplier's c	leta	ils		
Com		:	MSD		
Addre	ess	:	33 Whakatiki S Upper Hutt - N	Street - Private Bag 908 ew Zealand	
Telep	bhone	:	0800 800 543		
Emer	gency telephone number	r:	0800 764 766 CHEMCALL)	(0800 POISON) 0800 243 622 (0800	
E-ma	il address	:	EHSDATASTE	WARD@msd.com	
Reco	ommended use of the cl	hem	ical and restric	tions on use	
	mmended use ictions on use	:	Veterinary proc Not applicable	duct	
Section 2	: Hazard identification				
GHS	Classification				
Repr	oductive toxicity	:	Category 1		
	Specific target organ toxicity - repeated exposure		Category 1 (Pituitary gland, Immune system, muscle, thy gland, Blood, Adrenal gland)		
	rdous to the aquatic onment - acute hazard	:	Category 1		
	rdous to the aquatic onment - chronic hazard	:	Category 1		
GHS	label elements				
Haza	rd pictograms	:			

Signal word



:

Hazard statements : H360D May damage the unborn child. H372 Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure.



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Preca	utionary statements	Prevention: P201 Obtain s P260 Do not b P264 Wash sk P270 Do not e P273 Avoid re P280 Wear pr	ic to aquatic life with long lasting effects. pecial instructions before use. greathe mist or vapours. in thoroughly after handling. eat, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec
		tion/ face prote Response: P308 + P313 attention. P391 Collect s	F exposed or concerned: Get medical advice/
		Storage: P405 Store loo	cked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	hazards which do n	ot result in classifica	ation

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Polyethylene glycol stearate	9004-99-3	5
Gentamicin	1403-66-3	0.49
betamethasone	378-44-9	0.1
Benzalkonium chloride	8001-54-5	0.01

Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
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.

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In cas	e of eye contact	: Flush eyes wit	ean shoes before reuse. h water as a precaution. tention if irritation develops and persists.
lf swa	llowed	: If swallowed, D Get medical at	OO NOT induce vomiting.
	important symptoms	: May damage t	horoughly with water. he unborn child.
and e delaye	ffects, both acute and	Causes damaç exposure.	ge to organs through prolonged or repeated
	ction of first-aiders	: First Aid respo and use the re	nders should pay attention to self-protection, commended personal protective equipment
Notes	to physician		ntial for exposure exists (see section 8). natically and supportively.
ction 5:	Fire-fighting measure	S	
Suitat	ble extinguishing media	: Water spray	
		Alcohol-resista Carbon dioxide	
		Dry chemical	(002)
Unsui media	table extinguishing	: None known.	
	fic hazards during fire-	: Exposure to co	ombustion products may be a hazard to health
	dous combustion prod-	: Carbon oxides	
Speci ods	fic extinguishing meth-	cumstances ar Use water spra	ing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to a
		SO.	C C C C C C C C C C C C C C C C C C C
	al protective equipment efighters		fire, wear self-contained breathing apparatus. protective equipment.
	nem Code	: 3Z	······································
ection 6:	Accidental release me	easures	
	nal precautions, protec-		protective equipment.
	quipment and emer- procedures		ndling advice (see section 7) and personal pro ent recommendations (see section 8).
Enviro	onmental precautions	Prevent further Prevent spread barriers). Retain and dis	to the environment. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or pose of contaminated wash water. es should be advised if significant spillages
		cannot be cont	ained.
	ods and materials for inment and cleaning up		nert absorbent material. , provide dyking or other appropriate contain-
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			be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and	terial from spreading. If dyked material can e recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
Section 7	: Handling and storage	e		
Techr	nical measures	:		measures under EXPOSURE SONAL PROTECTION section.
Local	/Total ventilation	:	If sufficient ventila	ation is unavailable, use with local exhaust
Advic	e on safe handling	:	Handle in accorda practice, based o sessment Keep container tig Do not eat, drink	ist or vapours. h eyes. Ighly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as-
	ne measures	:	flushing systems place. When using do no Wash contaminat The effective ope engineering contr appropriate dego industrial hygiene use of administra	
Cond	itions for safe storage	:	Store locked up. Keep tightly close	labelled containers. ed. nce with the particular national regulations.
Mater	ials to avoid	:		the following product types:

Section 8: Exposure controls/personal protection

Components with workplace control parameters

•	•	•			
Components		CAS-No.	Value type	Control parame-	Basis



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		(Form of exposure)	ters / Permissible concentration	
Polyethylene glycol stearate	9004-99-3	WES-TWA	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
	Further inform	ation: OTO		
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further inform	ation: Skin		
		Wipe limit	10 µg/100 cm ²	Internal

Engineering measures :	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the poten- tial exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.
Personal protective equipmen	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection :	

Section 9: Physical and chemical properties



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	Appear	rance	:	liquid	
	Colour		:	No data available	9
	Odour		:	No data available	9
	Odour	Threshold	:	No data available	9
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	9
	Flash p	point	:	No data available	9
	Evapor	ration rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	4	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	No data available	2
	Partitio octano	n coefficient: n-	:	No data available	9
		inition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	No data available	
	Explos	ive properties	:	Not explosive	



Oxidizing properties : The substance or mixture is not classified as oxidizing. Molecular weight : No data available Particle size : No data available Section 10: Stability and reactivity : Stable under normal conditions. Chemical stability : Stable under normal conditions. Possibility of hazardous reactivity : Can react with strong oxidizing agents. tions : Oxidizing agents Hazardous decomposition : None known, Incompatible materials : Oxidizing agents Hazardous decomposition : None known, Incompatible materials : Oxidizing agents Hazardous decomposition : None known, Incompatible materials : Oxidizing agents Hazardous decomposition : No hazardous decomposition products are known. producti : Dxidizing agents Hazardous decomposition : No hazardous decomposition products are known. producti : Exposure routes Acute toxicity : Inhalation Skin contact : Reposure time: 4 h Exposure time: 4 h : Eatamosphere: dus/mist Method: Calculation toxicity : LD50 (Rat): > 5,000 mg/kg Acut	ersion .1	Revision Date: 30.09.2023		S Number: 4596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Molecular weight : No data available Particle size : No data available ection 10: Stability and reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions. Possibility of hazardous reac- tions : Stable under normal conditions. Possibility of hazardous reac- tions : Can react with strong oxidizing agents. Incompatible materials : Oxidizing agents Hazardous decomposition : None known. Incompatible materials : Oxidizing agents Hazardous decomposition : None known. products : None known. ection 11: Toxicological information : Non kazardous decomposition products are known. products : Inhalation : Exposure routes : Inhalation : Exposure inter : A cute toxicity estimate: > 5 mg/l : : Acute inhalation toxicity : : : Eduation toxicity : : : : Moteculastified based on available information. <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
Particle size : No data available ection 10: Stability and reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions. Possibility of hazardous reace : Can react with strong oxidizing agents. tions : None known. Incompatible materials :: Oxidizing agents Hazardous decomposition :: None known. Incompatible materials :: Oxidizing agents Hazardous decomposition :: No hazardous decomposition products are known. products :: No hazardous decomposition products are known. etton 11: Toxicological information. :: No classified based on available information. Exposure routes : : Acute toxicity estimate: > 5 mg/l Acute inhalation toxicity : : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h : : : : : : : : : : : : : : : : : : :	Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.
ection 10: Stability and reactivity Reactivity : Not classified as a reactivity hazard. Chemical stability :: Stable under normal conditions. Possibility :: Stable under normal conditions. Conditions to avoid :: Can react with strong oxidizing agents. Incompatible materials :: Oxidizing agents Hazardous decomposition :: No hazardous decomposition products are known. products : Oxidizing agents ection 11: Toxicological information : Skin contact Exposure routes : Inhalation Skin contact Ingestion : Exposure routes : Inhalation Skin contact Ingestion : Exposure routes : Inhalation Skin contact Ingestion : Producti : Acute toxicity estimate: > 5 mg/l Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Components: : D50 (Rat): > 5,000 mg/kg :	Molec	cular weight	:	No data availab	e
Reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Can react with strong oxidizing agents. Conditions to avoid : None known. Incompatible materials : Oxidizing agents Hazardous decomposition : No hazardous decomposition products are known. products : No hazardous decomposition products are known. ection 11: Toxicological information : Skin contact Exposure routes : Inhalation Skin contact Ingestion Eye contact Acute toxicity : Acute toxicity estimate: > 5 mg/l Exposure routes : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method : Components: : Polyethylene glycol stearate: : Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Gentamicin: : LD50 (Rat): \$ 8,000 - 10,000 mg/kg Acute oral toxicity : LC50 (Rat): > 0.2 mg/l <tr< td=""><td>Partic</td><td>le size</td><td>:</td><td>No data availab</td><td>e</td></tr<>	Partic	le size	:	No data availab	e
Chemical stability : Stable under normal conditions. Possibility of hazardous reac- tions : Can react with strong oxidizing agents. Conditions to avoid : None known. Incompatible materials : Oxidizing agents Hazardous decomposition products : No hazardous decomposition products are known. ection 11: Toxicological information : No hazardous decomposition products are known. Exposure routes : Inhalation Skin contact Ingestion Eye contact Skin contact Ingestion Acute toxicity Not classified based on available information. . Product: . Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Components: . . LD50 (Rat): > 5,000 mg/kg Gentamicin: . . . Acute oral toxicity : LD50 (Rat): > 0,000 mg/kg LD50 (Mouse): 10,000 mg/kg . . Acute inhalation toxicity : LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	ection 10): Stability and reactivi	ty		
Hazardous decomposition : No hazardous decomposition products are known. products ection 11: Toxicological information Exposure routes : Inhalation Skin contact Ingestion Eye contact Acute toxicity Not classified based on available information. Eroduct: Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Method: Calculation method Components: Polyethylene glycol stearate: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Gentamicin: . Acute oral toxicity : LD50 (Rat): 8,000 - 10,000 mg/kg LD50 (Mouse): 10,000 mg/kg . Acute inhalation toxicity : LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	Chem Possi tions Condi	lical stability bility of hazardous reac- tions to avoid	:	Stable under no Can react with s None known.	rmal conditions. trong oxidizing agents.
Exposure routesInhalation Skin contact Ingestion Eye contactAcute toxicityNot classified based on available information.Product: Acute inhalation toxicityAcute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodComponents: Polyethylene glycol stearate: Acute oral toxicityLD50 (Rat): > 5,000 mg/kgGentamicin: Acute oral toxicityLD50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodAcute oral toxicityELD50 (Rat): \$ 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	Hazaı	dous decomposition	:		
Skin contact Ingestion Eye contactAcute toxicityNot classified based on available information.Product: Acute inhalation toxicity: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodComponents: Polyethylene glycol stearate: Acute oral toxicity: LD50 (Rat): > 5,000 mg/kgGentamicin: Acute oral toxicity: LD50 (Rat): > 5,000 mg/kgAcute inhalation toxicity: LD50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	ection 1 ⁴	1: Toxicological inform	atic	on	
Not classified based on available information.Product:Acute inhalation toxicity:Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodComponents:Polyethylene glycol stearate: Acute oral toxicity:LD50 (Rat): > 5,000 mg/kgGentamicin: Acute oral toxicity:LD50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of :LD50 (Rat): 67 - 96 mg/kg	Expos	sure routes	:	Skin contact Ingestion	
Product:Acute inhalation toxicity: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodComponents:Polyethylene glycol stearate: 		-		· •	
Acute inhalation toxicity:Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation methodComponents:Polyethylene glycol stearate: Acute oral toxicity:LD50 (Rat): > 5,000 mg/kgGentamicin: Acute oral toxicity:LD50 (Rat): > 0,000 mg/kgAcute oral toxicity:LD50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of :LD50 (Rat): 67 - 96 mg/kg			ble	information.	
Polyethylene glycol stearate: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Gentamicin: Acute oral toxicity : LD50 (Rat): 8,000 - 10,000 mg/kg LD50 (Mouse): 10,000 mg/kg Acute inhalation toxicity : LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	-		:	Exposure time: 4 Test atmosphere	h : dust/mist
Acute oral toxicity:LD50 (Rat): > 5,000 mg/kgGentamicin: Acute oral toxicity:LD50 (Rat): 8,000 - 10,000 mg/kgAcute inhalation toxicity:LD50 (Mouse): 10,000 mg/kgAcute inhalation toxicity:LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of :LD50 (Rat): 67 - 96 mg/kg	<u>Comp</u>	oonents:			
Gentamicin: Acute oral toxicity : LD50 (Rat): 8,000 - 10,000 mg/kg LD50 (Mouse): 10,000 mg/kg Acute inhalation toxicity : LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	Polye	thylene glycol stearate	:		
Acute oral toxicity:LD50 (Rat): 8,000 - 10,000 mg/kgAcute inhalation toxicity:LD50 (Mouse): 10,000 mg/kgAcute inhalation toxicity:LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of :LD50 (Rat): 67 - 96 mg/kg	Acute	oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
LD50 (Mouse): 10,000 mg/kg Acute inhalation toxicity : LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg	Genta	amicin:			
Acute inhalation toxicity:LC50 (Rat): > 0.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose.Acute toxicity (other routes of :LD50 (Rat): 67 - 96 mg/kg	Acute	oral toxicity	:	LD50 (Rat): 8,00	0 - 10,000 mg/kg
Exposure time: 4 h Test atmosphere: dust/mist Remarks: No mortality observed at this dose. Acute toxicity (other routes of : LD50 (Rat): 67 - 96 mg/kg				LD50 (Mouse): 1	0,000 mg/kg
	Acute	inhalation toxicity	:	Exposure time: 4 Test atmosphere	h : dust/mist
			:		



ersion .1	Revision Date: 30.09.2023	-	0S Number: 4596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
			LD50 (Rat): 371 Application Rout	- 384 mg/kg te: Intramuscular
			LDLo (Monkey): Application Rout	
betar	nethasone:			
Acute oral toxicity		:	LD50 (Rat): > 5,	000 mg/kg
			LD50 (Mouse): >	> 4,500 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.4 Exposure time: 4	
Benz	alkonium chloride:			
Acute	oral toxicity	:	LD50 (Rat): 240	mg/kg
Acute	inhalation toxicity	:	Exposure time: 4 Test atmosphere Method: OECD Assessment: Co	
Acute	e dermal toxicity	:	LD50 (Rat, fema	ale): 704 mg/kg
Skin	corrosion/irritation			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	oonents:			
Polye	ethylene glycol stear	ate:		
Speci Metho		:	Rabbit Draize Test	
Resu		:	No skin irritation	I Contraction of the second
Genta	amicin:			
Speci Resu		:	Rabbit Mild skin irritatio	n
Resu	it.	•		11
	nethasone:			
Speci Resu		:	Rabbit Mild skin irritatio	n
Benz	alkonium chloride:			
<u> </u>	es	:	Human	
Speci Resu				4 hours or less of exposure



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Serious eye damage/eye irritation Not classified based on available information. **Components:** Polyethylene glycol stearate: Species : Rabbit Result : No eye irritation Method : Draize Test Gentamicin: Species : Rabbit Result Mild eye irritation : betamethasone: Species : Rabbit Result : No eye irritation Benzalkonium chloride: Species . Rabhit

opecies	•	Ναυμι
Result	:	Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Polyethylene glycol stearate:

Test Type	: Open epicutaneous test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

Gentamicin:

Remarks

: No data available

betamethasone:

Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Weak sensitizer



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Test	sure routes ies	: :	Human repeat in Skin contact Humans negative	sult patch test (HRIPT)		
Chro	Chronic toxicity					
	n cell mutagenicity lassified based on ava	ailable	information.			
Com	ponents:					
-	ethylene glycol stear toxicity in vitro	ate: :	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)		
	amicin: toxicity in vitro	:	Test Type: In viti Result: negative	ro mammalian cell gene mutation test		
			Test Type: Chro Result: equivoca	mosome aberration test in vitro I		
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse	malian erythrocyte micronucleus test (in vivo y) e: Intravenous injection		
betar	nethasone:					
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)		
			Test Type: In viti Result: negative	o mammalian cell gene mutation test		
			Test Type: Chro Result: positive	mosome aberration test in vitro		
Geno	toxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Mouse Application Rout Result: equivoca	e: Oral		
	n cell mutagenicity - ssment	:	Weight of evider cell mutagen.	ce does not support classification as a germ		

Benzalkonium chloride:



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Genotoxicity in vitro		:	Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) /e	
			Method: OECI Result: negative	vitro mammalian cell gene mutation test D Test Guideline 476 ve ed on data from similar materials	
			Method: OECI Result: negative	romosome aberration test in vitro D Test Guideline 473 /e ed on data from similar materials	
Genotoxicity in vivo		:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials		
Carci	nogenicity				
	assified based on avai	ilable	information.		
<u>Com</u>	oonents:				
	<u>oonents:</u> amicin:				
Genta		:	No data availa	ble	
Genta Carcii ment	amicin:	:	No data availa	ble	
Genta Carcii ment Benza Speci	amicin: nogenicity - Assess- alkonium chloride: es	:	Rat	ble	
Genta Carcin ment Benza Speci Applio	amicin: nogenicity - Assess- alkonium chloride: es cation Route	:	Rat Ingestion	ble	
Genta Carcin ment Benza Speci Applic Expos	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time	:	Rat Ingestion 2 Years		
Genta Carcin ment Benza Speci Applic Expos Metho	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od	:	Rat Ingestion 2 Years OECD Test G		
Genta Carcin ment Benza Speci Applic Expos	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od	:	Rat Ingestion 2 Years OECD Test Go negative		
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od lt arks	:	Rat Ingestion 2 Years OECD Test Go negative	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od lt arks		Rat Ingestion 2 Years OECD Test Go negative Based on data	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema Speci Applic Expos	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema Speci Applic	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time		Rat Ingestion 2 Years OECD Test Gonegative Based on data Mouse Skin contact	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema Speci Applic Expos	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od lt arks es cation Route sure time fu		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema Speci Applic Expos Resul	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time it es cation Route		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks negative Rabbit Skin contact	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Resul Rema Speci Applic Expos Resul Speci Applic Expos	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time it es cation Route sure time it		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks negative Rabbit Skin contact 90 weeks	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Metho Resul Rema Speci Applic Expos Resul	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time it es cation Route sure time it		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks negative Rabbit Skin contact	uideline 453	
Genta Carcin ment Benza Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul	amicin: nogenicity - Assess- alkonium chloride: es cation Route sure time od it arks es cation Route sure time it es cation Route sure time it		Rat Ingestion 2 Years OECD Test Genegative Based on data Mouse Skin contact 80 weeks negative Rabbit Skin contact 90 weeks	uideline 453	



/ersion .1	Revision Date: 30.09.2023		OS Number: 4596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016	
Comp	oonents:				
Genta	amicin:				
Effect	Effects on fertility		: Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight Result: No significant adverse effects were reported		
Effect ment	Effects on foetal develop- ment		Species: Rable Developmenta	nbryo-foetal development bit al Toxicity: NOAEL: 3.6 mg/kg body weight ıbryo-foetal toxicity	
			Species: Rat Application Ro Developmenta	nbryo-foetal development oute: Intraperitoneal al Toxicity: LOAEL: 75 mg/kg body weight ro-foetal toxicity	
			Species: Mou Application Ro Developmenta	nbryo-foetal development se bute: Intraperitoneal al Toxicity: LOAEL: 10 mg/kg body weight mortality, No malformations were observed.	
			Species: Rat Application Ro Developmenta	nbryo-foetal development oute: Intraperitoneal al Toxicity: LOAEL: 50 mg/kg body weight mortality, No malformations were observed.	
Repro sessn	ductive toxicity - As- nent	:		nce of adverse effects on development from niological studies.	
betan	nethasone:				
	s on foetal develop-	:	Developmenta	bit bute: Intramuscular al Toxicity: LOAEL: 0.05 mg/kg body weight xicity, Malformations were observed.	
			Developmenta	oute: Subcutaneous al Toxicity: LOAEL: 0.42 mg/kg body weight mations were observed.	
			Developmenta	se oute: Intramuscular al Toxicity: LOAEL: 1 mg/kg body weight mations were observed.	
Repro sessn	ductive toxicity - As- nent	:	Clear evidenc animal experir	e of adverse effects on development, based on ments.	



rsion	Revision Date: 30.09.2023	SDS Number: 434596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
Benza	alkonium chloride:					
Effects on fertility		Species: Ra Application Method: OE Result: neg	Route: Ingestion CD Test Guideline 416			
Effects on foetal develop- ment		Species: Ra Application Method: OE Result: neg	 Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar materials 			
STOT	- single exposure					
Not cl	assified based on ava	ilable information.				
STOT	- repeated exposure	•				
	es damage to organs (gland) through prolong		mune system, muscle, thymus gland, Blood, Ac posure.			
<u>Com</u>	oonents:					
Genta	amicin:					
Target Organs Assessment						
		: Kidney, inne : Causes dar exposure.	er ear nage to organs through prolonged or repeated			
betar	ssment	: Causes dar				
		: Causes dar exposure.	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo			
Targe	nethasone:	 Causes dar exposure. Pituitary gla Adrenal gla 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo			
Targe Asses	nethasone: It Organs	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blc nd			
Targe Asses Benza	ssment nethasone: t Organs ssment	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar exposure. No significa 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo nd nage to organs through prolonged or repeated			
Targe Asses Benz Asses	essment nethasone: ht Organs essment alkonium chloride:	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar exposure. No significa 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo nd nage to organs through prolonged or repeated nt health effects observed in animals at concen			
Targe Asses Benz Asses Repe	esment nethasone: It Organs ssment alkonium chloride: ssment	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar exposure. No significa 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo nd nage to organs through prolonged or repeated nt health effects observed in animals at concen			
Targe Asses Benz Asses Repe <u>Comp</u>	essment nethasone: It Organs ssment alkonium chloride: ssment ated dose toxicity	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar exposure. No significa 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo nd nage to organs through prolonged or repeated nt health effects observed in animals at concent			
Targe Asses Benz Asses Repe <u>Comp</u>	essment nethasone: It Organs ssment alkonium chloride: ssment ated dose toxicity ponents: amicin:	 Causes dar exposure. Pituitary gla Adrenal gla Causes dar exposure. No significa 	nage to organs through prolonged or repeated nd, Immune system, muscle, thymus gland, Blo nd nage to organs through prolonged or repeated nt health effects observed in animals at concen			

Application Route Exposure time Target Organs



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Spec		: Vomiting, Saliva : Monkey	ation			
Expo	EL cation Route sure time et Organs	 50 mg/kg Subcutaneous 3 Weeks Kidney, inner ear 				
Expo		 Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney, inner ear, Liver 				
Expo	EL	: Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood				
Expo	EL	: Rat : 12.5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney				
Spec LOAE Applic Expo		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland,	Immune system, muscle			
Expo		: Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland				
Expo		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland				
Expo		: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus g	gland, Adrenal gland			



ersion 1	Revision Date: 30.09.2023	SDS Number: 434596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016		
Benza	alkonium chloride:				
Speci		: Rat			
NOAE Applie	EL cation Route	: >= 100 mg/kg : Ingestion			
	sure time	: 12 Weeks			
	ation toxicity				
	assified based on avai				
Ехре	rience with human ex	posure			
Comp	oonents:				
Genta	amicin:				
Inges	tion	Target Organs:	Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness		
betan	nethasone:				
Inhala		: Target Organs:			
	contact	· ·	dness, pruritis, Irritation		
ction 12	2: Ecological informa	tion			
Ecoto	oxicity				
<u>Comp</u>	oonents:				
Polye	thylene glycol steara	te:			
	ity to fish				
Toxic	ity to microorganisms	: EC10 (Bacteria Exposure time:	a): > 10,000 mg/l 16 h		
Genta	amicin:				
Toxic	ity to daphnia and othe ic invertebrates	Exposure time:	a magna (Water flea)): 86 mg/l 48 h 9 Test Guideline 202		
		Exposure time:	mysis): 30 mg/l 96 h PA OPPTS 850.1035		



Version 9.1	Revision Date: 30.09.2023	-	9S Number: 4596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
			NOEC (Pseudokin µg/l Exposure time: 72 Method: OECD Te	
			EC50 (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Anabaena Exposure time: 72 Method: OECD Te	
	actor (Acute aquatic tox-	:	100	
	actor (Chronic aquatic	:	1	
toxic Toxi	ity) city to microorganisms	:	EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition
beta	methasone:			
	city to daphnia and other atic invertebrates	:	EC50 (Americamy Exposure time: 96	
Toxi plant	city to algae/aquatic ts	:	mg/l Exposure time: 72 Method: OECD To	
			mg/l Exposure time: 72 Method: OECD To	
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
			NOEC (Oryzias la Exposure time: 21 Method: OECD To	
aqua	city to daphnia and other atic invertebrates (Chron- kicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD T	
M-Fa toxic	actor (Chronic aquatic ity)	:	1,000	



Vers 9.1	sion	Revision Date: 30.09.2023		9S Number: 4596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		konium chloride: / to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0.28 mg/l s h
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0056 mg/l 3 h
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Chlorella p Exposure time: 72	oyrenoidosa (algae)): 0.09 mg/l ? h
		or (Acute aquatic tox-	:	100	
	icity) Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 34	es promelas (fathead minnow)): 0.032 mg/l l d
	Persist	tence and degradabili	ty		
	Compo	onents:			
		hylene glycol stearate	:		
	Biodeg	radability	:	Result: Readily bid Biodegradation: > Exposure time: 10 Method: OECD Te	» 70 %
	Gentar	nicin:			
	Biodeg	radability	:	Result: rapidly deg Biodegradation: 1 Exposure time: 28 Method: OECD Te	00 % 3 d
	Benzal	konium chloride:			
	Biodeg	radability	:		odegradable. est Guideline 301D on data from similar materials
	Bioacc	umulative potential			
	Compo	onents:			
	Gentar Partitio octanol	n coefficient: n-	:	log Pow: < -2	
		e thasone: n coefficient: n- /water	:	log Pow: 2.11	
		konium chloride: umulation	:	Species: Lepomis	macrochirus (Bluegill sunfish)



1	Revision Date: 30.09.2023	SDS Number: 434596-00022	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
			on factor (BCF): < 500 ed on data from similar materials
	on coefficient: n- ol/water	: log Pow: 1.692 Remarks: Calo	
	l ity in soil ata available		
	r adverse effects ata available		
ection 1	3: Disposal considerat	ions	
Dispo	osal methods		
	e from residues	Dispose of in a	e of waste into sewer. accordance with local regulations.
Conta	minated packaging	dling site for re	ers should be taken to an approved waste hau ecycling or disposal. e specified: Dispose of as unused product.
ection 14	4: Transport informatio	on	
Interr UNR1	national Regulations		
Interr UNR UN nu	national Regulations	: UN 3082 : ENVIRONMEN N.O.S.	
Interr UNR UN nu Prope Class	national Regulations IDG umber er shipping name	: UN 3082 : ENVIRONMEN N.O.S. (Gentamicin, I : 9	NTALLY HAZARDOUS SUBSTANCE, LIQUID Benzalkonium chloride)
Interr UNR UN nu Prope Class Packi	national Regulations TDG umber er shipping name ng group	: UN 3082 : ENVIRONMEN N.O.S. (Gentamicin, 1 : 9 : III	
Interr UNR UN nu Prope Class Packi Label	national Regulations TDG umber er shipping name ng group	: UN 3082 : ENVIRONMEN N.O.S. (Gentamicin, I : 9	
Interr UNR UN nu Prope Class Packi Label Enviro IATA	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	: UN 3082 : ENVIRONMEN N.O.S. (Gentamicin, I : 9 : III : 9 : yes	
Interr UNRT UN nu Prope Class Packi Label Enviro IATA	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I 9 III 9 yes UN 3082 Environmental 	Benzalkonium chloride) ly hazardous substance, liquid, n.o.s.
Interr UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I) 9 III 9 yes UN 3082 Environmental (Gentamicin, I) 9 	Benzalkonium chloride)
Interr UNR UN nu Prope Class Packi Label Enviro IATA VN/IE Prope Class Packi	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR o No. er shipping name ng group	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I) 9 III 9 yes UN 3082 Environmental (Gentamicin, I) 9 III 	Benzalkonium chloride) ly hazardous substance, liquid, n.o.s. Benzalkonium chloride)
Interr UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR o No. er shipping name ng group s ng group s ng group s	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I) 9 III 9 yes UN 3082 Environmental (Gentamicin, I) 9 	ly hazardous substance, liquid, n.o.s. Benzalkonium chloride)
Interr UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I) 9 III 9 yes UN 3082 Environmental (Gentamicin, I) 9 III Miscellaneous 964 964 	Benzalkonium chloride) ly hazardous substance, liquid, n.o.s. Benzalkonium chloride)
Interr UNR UN nu Prope Class Packi Label Enviro IATA Prope Class Packi Label Packi aircra Packi ger ai Enviro	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR o No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I 9 III 9 yes UN 3082 Environmental (Gentamicin, I 9 III 9 III 9 9 III 9 9 9 4 	Benzalkonium chloride) ly hazardous substance, liquid, n.o.s. Benzalkonium chloride)
Interr UNR UN nu Prope Class Packi Label Enviro Class Packi Label Prope Class Packi Label Packi aircra Packi ger ai Enviro	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)	 UN 3082 ENVIRONMEN N.O.S. (Gentamicin, I) 9 III 9 yes UN 3082 Environmental (Gentamicin, I) 9 III Miscellaneous 964 964 	Benzalkonium chloride) ly hazardous substance, liquid, n.o.s. Benzalkonium chloride)



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		(Gentamicin	, Benzalkonium chloride)
Class		: 9	
Packi Label	ng group	: III : 9	
	Code	: F-A, S-F	
Marin	e pollutant	: yes	
Trans	sport in bulk accord	ing to Annex II of M	IARPOL 73/78 and the IBC Code
	pplicable for product	-	
National Regulations			
NZS	5433		
• • • • • •	umber	: UN 3082	
Prope	er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, LIQUID,
01		,	n, Benzalkonium chloride)
Class	ng group	: 9 : III	
Label		: 9	
Hazc	hem Code	: 3Z	
Marin	e pollutant	: no	
Spec	ial precautions for ι	iser	
based Shee	d upon the properties	of the unpackaged is sifications may vary	are for informational purposes only, and solely material as it is described within this Safety Data by mode of transportation, package sizes, and va

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	Revision Date	: 30.09.2023	
Sources of key data used to : Internal technical data, data from raw material SDSs, OEC eChem Portal search results and European Chemicals Age cy, http://echa.europa.eu/	Sources of key data used to compile the Safety Data	eChem Portal search results and E	



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Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average

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