

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Gentamicin / Betamethasone Formulation
1.2	Relevant identified uses of th	ne s	substance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	etv data sheet
	Company	:	MSD Balıkhisar Mah. Köyiçi Küme Evleri No: 765/A Çubuk Yolu 2. Km Akyurt / Ankara / TÜRKİYE
	Telephone	:	+90 312 840 53 00
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

National Poison Control Center (UZEM): 114 Emergency: 1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification T.R. SEA No 28848 and subsequent amendments

Reproductive toxicity, Category 1A Specific target organ toxicity - repeated exposure, Category 1	H360D: May damage the unborn child. H372: Causes damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling T.R. SEA No 28848 and subsequent amendments

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Haz	ard pictograms		¥
Sig	nal word	: Danger	•
Haz	ard statements	H372 Causes peated exposure	nage the unborn child. damage to organs through prolonged or re- e. tic to aquatic life with long lasting effects.
Pre	cautionary statements	P264 Wash sl P273 Avoid re	special instructions before use. kin thoroughly after handling. elease to the environment. otective gloves/ protective clothing/ eye protec- tion.
		Response: P308 + P313 attention. P391 Collect :	IF exposed or concerned: Get medical advice/
	ardous components white the second seco	ch must be listed on t	he label:
beta	amethasone		

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. KKDIK Registra- tion No.	SEA Classification	Concentration (% w/w)
Gentamicin	1403-66-3 215-765-8	Repr. 1A; H360D STOT RE 1; H372 (Kidney, inner ear) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity):	0,49

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			100 M-Factor (Chronic aquatic toxicity): 1	
betan	nethasone	378-44-9 206-825-4	Acute Tox. 2;	0,1
			aquatic toxicity): 1.000 specific concentra- tion limit STOT RE 1; H372 >= 0,01 % Repr. 1B; H360D >= 0,01 %	
Benza	alkonium chloride	8001-54-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 100	0,01

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.



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			When symptoms advice.	persist or in all cases of doubt seek medical		
Protection of first-aiders		:	and use the reco	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
lf inha	aled	:	If inhaled, remov Get medical atte			
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 case of eye contact		:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
4.2 Most i	mportant symptoms a	nd e	effects. both acut	e and delaved		
Risks		:	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.			
4.3 Indica	tion of any immediate	me	dical attention an	d special treatment needed		
Treati	ment	:	Treat symptomat	ically and supportively.		
SECTION	I 5: Firefighting mea	sur	es			
5.1 Exting	uishing media					
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical			
Unsuitable extinguishing : media			None known.			
5.2 Specia	al hazards arising from			ixture		

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting

Hazardous combustion prod- : Carbon oxides ucts

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5.3 Advice	for firefighters			
	al protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

:

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.



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Local/Total ventilation Advice on safe handling		:	If sufficient ventilation is unavailable, use with local exhaust ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes.			
	Hygier	ne measures	:	Wash skin thorou Handle in accord practice, based o sessment Keep container tig Do not eat, drink Take care to prev environment.	ghly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as-	
				place. When usin nated clothing be The effective ope engineering contr appropriate dego	ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the	
7.2	Conditi	ions for safe storage,	inc	luding any incom	patibilities	
		ements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national	
	Advice	on common storage	:	Strong oxidizing	stances and mixtures	
7.3	Specifi	c end use(s)				
	-	ic use(s)	:	No data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal	
	Further information: OTO				
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal	
	Further inform	nation: Skin			
		Wipe limit	10 µg/100 cm²	Internal	

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Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Polyethylene glycol castor oil	Workers	Inhalation	Long-term systemic effects	16,4 mg/m3
	Workers	Skin contact	Long-term systemic effects	4,67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,67 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Polyethylene glycol castor oil	Fresh water	0,000 mg/l
	Freshwater - intermittent	0,0661 mg/l
	Marine water	0,000 mg/l
	Marine water - intermittent	0,00661 mg/l
	Fresh water sediment	0,0129 mg/kg dry
		weight (d.w.)
	Marine sediment	0,00129 mg/kg
		dry weight (d.w.)
	Soil	0,00258 mg/kg
		dry weight (d.w.)

8.2 Exposure controls

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 potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.

Personal protective equipment

Eye/face protection	:	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.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat.

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Resp	iratory protection	being performed suits) to avoid e Use appropriate contaminated cl : If adequate loca sure assessmer	garments should be used based upon the task d (e.g., sleevelets, apron, gauntlets, disposable xposed skin surfaces. e degowning techniques to remove potentially othing. Il exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- lelines, use respiratory protection.
Fil	ter type	Equipment shou : Particulates type	uld conform to TS EN 143 e (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold		liquid No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	::	No data available No data available No data available
Decomposition temperature	:	No data available

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	iscosity, kinematic	: No data avai	
	osive properties	: Not explosive	e or mixture is not classified as oxidizing.
Flam	information mability (liquids) cular weight	: No data avai : No data avai	
Partio	cle size	: No data avai	able

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Product:

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	Acute in	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
	Compo	onents:			
	Gentar	nicin:			
	Acute c	oral toxicity	:	LD50 (Rat): 8.000) - 10.000 mg/kg
				LD50 (Mouse): 10	0.000 mg/kg
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 0,2 Exposure time: 4 Test atmosphere: Remarks: No mor	h
		oxicity (other routes of stration)	:	LD50 (Rat): 67 - 9 Application Route	
				LD50 (Rat): 371 - Application Route	
				LDLo (Monkey): 3 Application Route	
11	betame	ethasone:			
	Acute c	oral toxicity	:	LD50 (Rat): > 5.00	00 mg/kg
				LD50 (Mouse): > -	4.500 mg/kg
	Acute ii	nhalation toxicity	:	LC50 (Rat): 0,4 m Exposure time: 4	
	Benzal	konium chloride:			
		oral toxicity	:	LD50 (Rat): 240 n	ng/kg
	Acute ii	nhalation toxicity	:		h dust/mist
	Acute c	lermal toxicity	:	LD50 (Rat, female	e): 704 mg/kg

Skin corrosion/irritation

Not classified based on available information.

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<u>Comp</u>	oonents:		
Genta	amicin:		
Specie		: Rabbit	
Result	t	: Mild skin irritati	on
betam	nethasone:		
Specie		: Rabbit	
Result	t	: Mild skin irritati	on
Benza	alkonium chloride:		
Specie		: Human	
Result	t	: Corrosive after	4 hours or less of exposure
Serio	us eye damage/eye	irritation	
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
Genta	amicin:		
Specie		: Rabbit	
Result	t	: Mild eye irritation	on
betam	nethasone:		
Specie		: Rabbit	
Result	t	: No eye irritation	n
Benza	alkonium chloride:		
Specie	es	: Rabbit	
Result	t	: Irreversible effe	ects on the eye
Respi	ratory or skin sensi	tisation	
Skin s	sensitisation		
Not cla	assified based on ava	ailable information.	
-	iratory sensitisation assified based on ava		
	oonents:		
Genta	amicin:		
Rema	-	: No data availal	ble
hotar	nethasone:		
	sure routes	: Dermal	
Expos			
Expos	es	: Guinea pig : Weak sensitize	

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Benza	alkonium chloride:			
Test T Expos Specie Result	sure routes es	:	Human repeat ins Skin contact Humans negative	ult patch test (HRIPT)
	cell mutagenicity assified based on availa	able	information.	
Comp	oonents:			
Genta	amicin:			
Genot	toxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chrom Result: equivocal	nosome aberration test in vitro
Genot	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) : Intravenous injection
betarr	nethasone:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	mammalian cell gene mutation test
			Test Type: Chrom Result: positive	nosome aberration test in vitro
Genot	toxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: equivocal	, ,
Germ sessm	cell mutagenicity- As- nent	:	Weight of evidend cell mutagen.	e does not support classification as a germ
II Benza	alkonium chloride:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476 on data from similar materials

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				Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials
	Genote	oxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Method: OECD T Result: negative	: Ingestion
		ogenicity assified based on availa	abla	information	
		onents:	able	iniornation.	
	Genta	micin:			
	Carcin ment	ogenicity - Assess-	:	No data available	
	Benza	lkonium chloride:			
	Specie	es ation Route	:	Rat	
	Expos	ure time	÷	Ingestion 2 Years	
	Metho		:	OECD Test Guide	eline 453
	Result		:	negative	
I	Remar	KS	-	Based on data fro	om similar materials
	Specie		:	Mouse	
		ation Route	:	Skin contact	
	Result	ure time	:	80 weeks negative	
				-	
	Specie	es ation Route	÷	Rabbit Skin contact	
	Expos	ure time	÷	90 weeks	
	Result		:	negative	
	-	ductive toxicity amage the unborn child	d.		
		onents:			
	Genta	micin:			
	Effects	s on fertility	:	Species: Rat Fertility: NOAEL:	eneration reproduction toxicity study 20 mg/kg body weight cant adverse effects were reported
	Effects	on foetal develop-	:	Test Type: Embry	vo-foetal development

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/ersion 3.0	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20242054154-00014Date of first issue: 09.10.2017	
ment		Species: Rabbit Developmental Toxicity: NOAEL: 3,6 mg/kg bod Result: No embryo-foetal toxicity	/ weight
		Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 75 mg/kg body Result: Embryo-foetal toxicity	weight
		Test Type: Embryo-foetal development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body Result: foetal mortality, No malformations were o	
		Test Type: Embryo-foetal development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 50 mg/kg body Result: foetal mortality, No malformations were o	
Repro sessm	ductive toxicity - As- nent	: Positive evidence of adverse effects on development human epidemiological studies.	ment from
betan	nethasone:		
Effect ment	s on foetal develop-	: Species: Rabbit Application Route: Intramuscular Developmental Toxicity: LOAEL: 0,05 mg/kg boo Result: Fetotoxicity, Malformations were observed	
		Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: 0,42 mg/kg boo Result: Malformations were observed.	ly weight
		Species: Mouse Application Route: Intramuscular Developmental Toxicity: LOAEL: 1 mg/kg body v Result: Malformations were observed.	veight
Repro sessm	ductive toxicity - As- nent	: Clear evidence of adverse effects on developme animal experiments.	nt, based on
Benz:	alkonium chloride:		
	s on fertility	: Test Type: Two-generation reproduction toxicity Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials	study

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Effect ment	s on foetal develop-	:	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 availa	able	information.			
	- repeated exposure					
	es damage to organs th	roug	h prolonged or rep	eated exposure.		
<u>Com</u>	oonents:					
Genta	amicin:					
	et Organs ssment	:	Kidney, inner ear Causes damage t exposure.	o organs through prolonged or repeated		
betan	nethasone:					
Targe	et Organs	:	Pituitary gland, Im Adrenal gland	mune system, muscle, thymus gland, Blood,		
Asses	ssment	:	•	o organs through prolonged or repeated		
Benza	alkonium chloride:					
Asses	ssment	:	No significant heations of 100 mg/kg	Ith effects observed in animals at concentra- g bw or less.		
Repe	ated dose toxicity					
<u>Com</u>	oonents:					
Genta	amicin:					
Speci		:	Dog			
LOAE Applic	cation Route	:	3 mg/kg Intramuscular			
Expos	sure time	:	12 Months			
Targe Symp	et Organs etoms	:	Kidney Vomiting, Salivati	on		
Speci	es		Monkey			
LÒAE	EL	:	50 mg/kg			
	cation Route sure time	:	Subcutaneous 3 Weeks			
	et Organs	:	Kidney, inner ear			
Speci	es	:	Monkey			
LÖAE		:	6 mg/kg			
Applic	cation Route	·	Intramuscular			

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	sure time t Organs	: 3 Weeks : Blood, Kidney, ir	nner ear, Liver
Species NOAEL LOAEL Application Route Exposure time Target Organs		: Rat : 5 mg/kg : 10 mg/kg : Intramuscular : 52 Weeks : Kidney, Blood	
Expos	EL	: Rat : 12,5 mg/kg : 50 mg/kg : Intramuscular : 13 Weeks : Kidney	
Speci LOAE Applic Expos		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland, I	mmune system, muscle
Expos		: Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland	
Expos		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Expos		: Dog : 0,05 mg/kg : Oral : 28 d : Blood, thymus g	and, Adrenal gland
Speci NOAE Applic		: Rat : >= 100 mg/kg : Ingestion : 12 Weeks	

Aspiration toxicity

Not classified based on available information.

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Experience with human exposure

Components:

Gentamicin:

Ingestion		Target Organs: Kidney Target Organs: inner ear Symptoms: Dizziness, Vertigo, hearing loss, tinnitus, fetal deafness
betamethasone:		
Inhalation Skin contact	:	Target Organs: Adrenal gland Symptoms: Redness, pruritis, Irritation

SECTION 12: Ecological information

12.1 Toxicity

Components:

Gentamicin:

:	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
:	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 Method: OECD Test Guideline 201
	NOEC (Anabaena flos-aquae (cyanobacterium)): 1,6 µg/l Exposure time: 72 h Method: OECD Test Guideline 201
:	100
:	EC50 : 288,7 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
	:

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toxi	37	:	1					
Tox	amethasone: icity to daphnia and other atic invertebrates	:		EC50 (Americamysis): > 50 mg/l Exposure time: 96 h				
Tox plar	icity to algae/aquatic hts	:	mg/l Exposure time: 72 Method: OECD Te					
			mg/l Exposure time: 72 Method: OECD Te					
Tox icity	icity to fish (Chronic tox-)	:	NOEC: 0,052 mg/ Exposure time: 32 Species: Pimepha Method: OECD Te	d les promelas (fathead minnow)				
			NOEC: 0,07 µg/l Exposure time: 21 Species: Oryzias Method: OECD Te	atipes (Japanese medaka)				
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC: 8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211					
M-F toxi	actor (Chronic aquatic city)	:	1.000					
Ber	zalkonium chloride:							
Тох	icity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0,28 mg/l 5 h				
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,0056 mg/l s h				
Tox plar	icity to algae/aquatic its	:	ErC50 (Chlorella pyrenoidosa (algae)): 0,09 mg/l Exposure time: 72 h					
M-F icity	actor (Acute aquatic tox-	:	100					
Tox icity	icity to fish (Chronic tox-)	:	NOEC: 0,032 mg/ Exposure time: 34 Species: Pimepha					

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12.2 Persistence and degradability

12.2 Persistence and degradabil	ity	
Components:		
Gentamicin:		
Biodegradability	:	Result: rapidly degradable Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 314
Benzalkonium chloride:		
Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301D Remarks: Based on data from similar materials
12.3 Bioaccumulative potential		
Components:		
Gentamicin:		
Partition coefficient: n- octanol/water	:	log Pow: < -2
betamethasone:		
Partition coefficient: n- octanol/water	:	log Pow: 2,11
Benzalkonium chloride:		
Bioaccumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): < 500 Remarks: Based on data from similar materials
Partition coefficient: n- octanol/water	:	log Pow: 1,692 Remarks: Calculation
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB as	sse	ssment
Not relevant		
12.6 Other adverse effects No data available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes

:

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(Contaminated packaging			are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.				
SEC	TION	14: Transport infor	mat	tion				
14.1	UN nu	mber						
	ADN		:	UN 3082				
	ADR		:	UN 3082				
F	RID		:	UN 3082				
I	IMDG		:	UN 3082				
I	ΙΑΤΑ		:	UN 3082				
14.2	UN pro	oper shipping name						
	ADN		:	N.O.S.	LLY HAZARDOUS SUBSTANCE, LIQUID, zalkonium chloride)			
	ADR		:	N.O.S.	LLY HAZARDOUS SUBSTANCE, LIQUID, zalkonium chloride)			
F	RID		:	N.O.S.	LLY HAZARDOUS SUBSTANCE, LIQUID,			
I	IMDG		:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
I	ΙΑΤΑ		:		azardous substance, liquid, n.o.s. zalkonium chloride)			
14.3	Trans	port hazard class(es)						
				Class	Subsidiary risks			
/	ADN		:	9				
	ADR		:	9				
F	RID		:	9				
I	IMDG		:	9				
	ΙΑΤΑ		:	9				
14.4	Packir	ng group						
	ADN Packin	g group	:	ш				

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	ification Code rd Identification Number Is	::	M6 90 9	
Class Haza Label	ing group sification Code rd Identification Number ls el restriction code	::	III M6 90 9 (-)	
Class	ing group sification Code rd Identification Number Is	: : :	III M6 90 9	
Label	ing group	:	III 9 F-A, S-F	
Packi aircra Packi	ing instruction (LQ)	:	964 Y964 III Miscellaneous	
Packi ger a Packi	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ) ing group	:	964 Y964 III Miscellaneous	
14.5 Envi	ronmental hazards			
	onmentally hazardous	:	yes	
ADR Envir	onmentally hazardous	:	yes	
RID Envir	onmentally hazardous	:	yes	
IMDO Marin	e pollutant	:	yes	
ΙΑΤΑ	(Passenger) onmentally hazardous	:	yes	
ΙΑΤΑ	(Cargo) onmentally hazardous	:	yes	
	ial precautions for use	er		

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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

KKDIK (30105 (Bis)) - Restriction placing on the market and use of substances, mixtures and article	f certain dangerous	:	Conditions of rest lowing entries sho Number on list 3	riction for the fol- ould be considered:
			here according to in the regulation, i use/purpose or the restriction. Please tions in correspon determine whethe	hixture(s) are listed their appearance rrespective of their e conditions of the refer to the condi- ding Regulation to er an entry is appli- ng on the market or
Regulation on Persistent Organi		:	Not applicable	
30595 and subsequent amendm				
Regulation on prevention of majo	or industrial accidents. R	keg r		
			Quantity 1	Quantity 2
E1	ENVIRONMENTAL		100 t	200 t
	HAZARDS			

Other regulations:

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published. Regulation on Import and Export of Certain Hazardous : Not applicable Chemicals, No. 32087, 2023

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information



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Other	information	:	are highlighted in lines. The SDS has bee tact email: sds@c 706 1307; Certific	ges have been made to the previous version the body of this document by two vertical n prepared by: Name: Gökhan Ardıç; Con- hemleg.com; Telephone number: +90 216 ate Number: Lonca KDU 34 / 2020.08; Cer- eptember 2020; Valid Until: 22 September
Full te	xt of H-Statements			
H301		:	Toxic if swallowed	1.
H311		:	Toxic in contact with skin.	
H314		:	Causes severe skin burns and eye damage.	
H318		:	Causes serious eye damage.	
H330		:	Fatal if inhaled.	
H360D)	:	May damage the unborn child.	
H372		:	Causes damage t exposure.	o organs through prolonged or repeated
H372		:		o organs through prolonged or repeated wed.
H400		:	Very toxic to aqua	
H410				tic life with long lasting effects.
H411		:	,	fe with long lasting effects.

The Turkish SDS has been prepared according to the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures No. 29204.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Eye Dam. :	Serious eye damage
Repr. :	Reproductive toxicity
Skin Corr. :	Skin corrosion
STOT RE :	Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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 popula-



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tion; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the mixt	Classification procedure:	
Repr. 1A	H360D	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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