

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Clotrimazole / Gentamicin / Betamethasone (0.1%) Formulation
Other means of identification	:	OTOMAX OINTMENT (51104)
Supplier's company name, a Company name of supplier		•
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd.
		Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product Reproductive toxicity : Category 1A					
Specific target organ toxicity - repeated exposure	:	Category 1 (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland)			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			
GHS label elements					
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	H360D May damage the unborn child.			



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Preca	utionary statements	tem, muscle, thy longed or repeat H410 Very toxic Prevention: P201 Obtain spe P202 Do not hat and understood. P260 Do not bre P264 Wash skin P270 Do not eat P273 Avoid rele	to aquatic life with long lasting effects. ecial instructions before use. ndle until all safety precautions have been read eathe mist or vapours. a thoroughly after handling. t, drink or smoke when using this product. ase to the environment. ective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 IF attention. P391 Collect spi	exposed or concerned: Get medical advice/
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o disposal plant.	f contents/ container to an approved waste
	hazards which do no known.	t result in classificati	on
3. COMPO	SITION/INFORMATIO	N ON INGREDIENTS	

Substance / Mixture	:	Mixture
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Components

Componente			
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
White mineral oil (petroleum)	8042-47-5	>= 90 - <= 100	9-1700
clotrimazole	23593-75-1	>= 1 - < 2.5	-
Gentamicin	1403-66-3	>= 0.3 - < 1	-
betamethasone	378-44-9	>= 0.1 - < 0.25	-

4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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lf inha In cas	aled se of skin contact	:	advice. If inhaled, removing Get medical atternation In case of contain of water.	s persist or in all cases of doubt seek medical ve to fresh air.		
In case of eye contact		:	Get medical atte Wash clothing b Thoroughly clea Flush eyes with	ention.		
If swallowed Most important symptoms and effects, both acute and		:	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
delay Prote		:	exposure. First Aid respon- and use the reco when the potent			
	GHTING MEASURES	•				
	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical			
Unsui media	itable extinguishing a	:	None known.			
Speci fightir	fic hazards during fire- ng	:	Exposure to con	nbustion products may be a hazard to health.		
Hazai ucts	rdous combustion prod-	:	Carbon oxides			
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to d		
	al protective equipment efighters	:		re, wear self-contained breathing apparatus. otective equipment.		



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. 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.

7. HANDLING AND STORAGE

Handling	
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact Hygiene measures	 Oxidizing agents If exposure to chemical is likely during typical use, provide eye



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			place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	and safety showers close to the working ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the tive controls.
S	torage			
	conditions for safe storage laterials to avoid	:	Store locked up. Keep tightly close Store in accordar	ce with the particular national regulations. the following product types:
Р	ackaging material	:	Unsuitable materi	al: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
clotrimazole	23593-75-1	TWA	0.2 mg/m3 (OEB 2)	Internal
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 information: 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 potential exists for aerosolization. If this potential does not exist,



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handle over lined trays or benchtops.

Personal protective equipme	ent		
Respiratory protection	:	If adequate local exhaust ventilation is not available or ex sure assessment demonstrates exposures outside the rec ommended guidelines, use respiratory protection.	
Filter type	:	Combined particulates and organic vapour type	
Hand protection			
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	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Up- per flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available



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FI	lash po	oint	:	No data available	9
D	ecomp	position temperature	:	No data available	9
pł	Н		:	No data available	9
E	vapora	ation rate	:	No data available	9
A	uto-igr	nition temperature	:	No data available	9
Vi	iscosit Visc	y osity, kinematic	:	No data available	9
So	olubilit Wate	y(ies) er solubility	:	No data available	
	artitior ctanol/	n coefficient: n- /water	:	Not applicable	
Va	apour	pressure	:	No data available	9
D		and / or relative densi tive density	ity :	No data available	9
	Den	sity	:	No data available	9
R	elative	e vapour density	:	No data available)
E	xplosiv	ve properties	:	Not explosive	
0	xidizin	g properties	:	The substance of	r mixture is not classified as oxidizing.
Pa		characteristics cle size	:	Not applicable	

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.

11. TOXICOLOGICAL INFORMATION



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Information on likely exposure	routes of :	Inhalation Skin contact Ingestion Eye contact	
Acute toxicity Not classified based	on available	information.	
Product:			
Acute oral toxicity	:		estimate: > 2,000 mg/kg ulation method
Acute inhalation toxic	bity :	Exposure time Test atmosph	estimate: > 5 mg/l e: 4 h ere: dust/mist ulation method
Acute dermal toxicity	:		estimate: > 2,000 mg/kg ulation method
Components:			
White mineral oil (p	etroleum):		
Acute oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute inhalation toxic	sity :	LC50 (Rat): > Exposure time Test atmosph Assessment: tion toxicity	e: 4 h
Acute dermal toxicity	:): > 2,000 mg/kg The substance or mixture has no acute derma
clotrimazole:			
Acute oral toxicity	:	LD50 (Rat): 7	08 mg/kg
		LD50 (Mouse): 761 mg/kg
		LD50 (Rabbit)): > 1,000 mg/kg
Acute inhalation toxic	city :	LC50 (Rat): > Exposure time Test atmosph	e: 4 h
Acute dermal toxicity	:	LD50 (Mouse): 923 mg/kg
Gentamicin:			



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Ac	cute oral toxicity	:	LD50 (Rat): 8,000	- 10,000 mg/kg
			LD50 (Mouse): 10	,000 mg/kg
Ac	cute inhalation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4 Test atmosphere: Remarks: No mor	h
	cute toxicity (other routes of ministration)	:	LD50 (Rat): 67 - 9 Application Route	
			LD50 (Rat): 371 - Application Route	
			LDLo (Monkey): 3 Application Route	
be	tamethasone:			
Ac	cute oral toxicity	:	LD50 (Rat): > 5,00	
			LD50 (Mouse): > 4	4,500 mg/kg
Ac	cute inhalation toxicity	:	LC50 (Rat): 0.4 m Exposure time: 4	
-	xin corrosion/irritation ot classified based on availa	ble	information.	
<u>Cc</u>	omponents:			
	hite mineral oil (petroleum	n):		
	pecies esult	:	Rabbit No skin irritation	
cle	otrimazole:			
	oecies esult	:	Rabbit No skin irritation	
Ge	entamicin:			
	pecies esult	:	Rabbit Mild skin irritation	
be	tamethasone:			
	pecies esult	:	Rabbit Mild skin irritation	



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Serious eye damage/eye irritation

Not classified based on available information.

Components:

White mineral oil (petroleum Species Result	ו): י	Rabbit No eye irritation	
clotrimazole:		5.117	
Species Result	:	Rabbit Mild eye irritation	
Gentamicin:			
Species Result	:	Rabbit Mild eye irritation	
betamethasone:			
Species Result	:	Rabbit No eye irritation	
Respiratory or skin sensitisation			
Skin sensitisation			

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

White mineral oil (petroleum):

Test Type Exposure routes	:	Buehler Test Skin contact
Species	:	Guinea pig
Result		negative
Gentamicin: Remarks	:	No data available

betamethasone:

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

Germ cell mutagenicity

Not classified based on available information.



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Components:

White mineral oil (petroleum):	
Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
clotrimazole:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
	Test Type: in vitro micronucleus test Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Oral Result: negative
	Test Type: Mammalian spermatogonial chromosome aberra- tion test (in vivo) Species: Hamster Result: negative
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Gentamicin:	
Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: Chromosome aberration test in vitro Result: equivocal
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intravenous injection



sion 1	Revision Date: 2024/09/28	SDS Number: 808847-00027	Date of last issue: 2024/07/06 Date of first issue: 2016/07/22		
		Result: negativ	'e		
betar	nethasone:				
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re		
		Test Type: In v Result: negativ	ritro mammalian cell gene mutation test re		
		Test Type: Chr Result: positive	romosome aberration test in vitro		
Geno	toxicity in vivo	cytogenetic as Species: Mous	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Oral Result: equivocal		
	cell mutagenicity -		ence does not support classification as a gerr		
	ssment	cell mutagen.			
Carci Not c	ssment nogenicity lassified based on ava ponents:	-			
Carci Not cl	nogenicity lassified based on ava	ailable information.			
Carci Not cl <u>Com</u> White Speci Applio	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time	ailable information.			
Carci Not cl Comj White Speci Applic Expos Resul	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt	ailable information. um): : Rat : Ingestion : 24 Months			
Carci Not cl Com White Speci Applic Expos Resul Clotri Speci Applic	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time it mazole: es cation Route sure time	ailable information. um): : Rat : Ingestion : 24 Months			
Carci Not cl Com White Speci Applic Expos Resul	nogenicity lassified based on ava <u>ponents:</u> e mineral oil (petrole es cation Route sure time it mazole: es cation Route sure time it	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks			
Carci Not cl Comj White Speci Applic Expos Resul Clotri Speci Applic Expos Resul Genta	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt mazole: es cation Route sure time lt amicin:	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks	ble		
Carci Not cl Comj White Speci Applic Expos Resul Clotri Speci Applic Expos Resul Carci ment Repro	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt mazole: es cation Route sure time lt amicin: nogenicity - Assess- oductive toxicity	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks : negative : No data availal	ble		
Carci Not cl Comj White Speci Applic Expos Resul Clotri Speci Applic Expos Resul Genta Carcii ment Repro	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt mazole: es cation Route sure time lt amicin: nogenicity - Assess- oductive toxicity damage the unborn ch	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks : negative : No data availal	ble		
Carci Not cl Comj White Speci Applic Expos Resul Clotri Speci Applic Expos Resul Genta Carcii ment Repro	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt mazole: es cation Route sure time lt amicin: nogenicity - Assess- oductive toxicity	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks : negative : No data availal	ble		
Carci Not cl Comj White Speci Applic Expos Resul Clotri Speci Applic Expos Resul Carci ment Repro May c Comj White	nogenicity lassified based on ava <u>conents:</u> e mineral oil (petrole es cation Route sure time lt mazole: es cation Route sure time lt amicin: nogenicity - Assess- oductive toxicity damage the unborn ch	ailable information. um): : Rat : Ingestion : 24 Months : negative : Rat : Oral : 78 weeks : negative : No data availat hild. um):	ble		



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		Species: Rat Application Route: Skin contact Result: negative	
Effec ment	ts on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative	
clotr	imazole:		
	ts on fertility	 Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: LOAEL: 50 mg/kg body weight Result: Effects on fertility 	
Effec ment	ts on foetal develop-	 Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weigh Result: Embryo-foetal toxicity, No teratogenic effects 	ıt
		Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 50 mg/kg body weight Result: Embryo-foetal toxicity, No teratogenic effects	
		Test Type: Embryo-foetal development Species: Mouse Application Route: Oral Developmental Toxicity: NOAEL: 200 mg/kg body weigh Result: No effects on foetal development	nt
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 180 mg/kg body weigh Result: No effects on foetal development	nt
Repr sessi	oductive toxicity - As- ment	: Some evidence of adverse effects on sexual function ar fertility, based on animal experiments., Some evidence adverse effects on development, based on animal experiments.	of
Gant	amicin:		
	ts on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Fertility: NOAEL: 20 mg/kg body weight	



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Effe	ects on foetal develop- nt	: Test Type: Species: R Developme Result: No Test Type: Species: R Application Developme	ental Toxicity: NOAEL: 3.6 mg/kg body weight embryo-foetal toxicity Embryo-foetal development
		Species: M Application Developme	Embryo-foetal development ouse Route: Intraperitoneal ental Toxicity: LOAEL: 10 mg/kg body weight tal mortality, No malformations were observed.
		Species: R Application Developme	Embryo-foetal development at Route: Intraperitoneal ental Toxicity: LOAEL: 50 mg/kg body weight tal mortality, No malformations were observed.
•	productive toxicity - As- sment		idence of adverse effects on development from demiological studies.
	amethasone: ects on foetal develop- nt	Developme Result: Fet Species: R	Route: Intramuscular ental Toxicity: LOAEL: 0.05 mg/kg body weight otoxicity, Malformations were observed. at
		Developme	Route: Subcutaneous ental Toxicity: LOAEL: 0.42 mg/kg body weight lformations were observed.
		Developme	ouse Route: Intramuscular ental Toxicity: LOAEL: 1 mg/kg body weight Iformations were observed.
	productive toxicity - As- sment	: Clear evide animal exp	ence of adverse effects on development, based on eriments.

STOT - single exposure

Not classified based on available information.



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STOT - repeated exposure

Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure.

Components:

clotrimazole: Target Organs Assessment	:	Liver, Kidney, Adrenal gland May cause damage to organs through prolonged or repeated exposure.
Gentamicin: Target Organs Assessment	:	Kidney, inner ear Causes damage to organs through prolonged or repeated exposure.
betamethasone:		
Target Organs	:	Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland
Assessment	:	Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

White mineral oil (petroleum):					
Species LOAEL Application Route Exposure time	:	Rat 160 mg/kg Ingestion 90 Days			
Species LOAEL Application Route Exposure time Method		Rat >= 1 mg/l inhalation (dust/mist/fume) 4 Weeks OECD Test Guideline 412			
clotrimazole: Species LOAEL Application Route Exposure time Target Organs Symptoms	:	Rabbit 5 - 40 mg/kg Skin contact 3 Weeks Skin Oedema, Fissuring, Necrosis, Redness			
Species LOAEL Application Route	:	Rat 10 mg/kg Oral			



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	sure time et Organs	:	18 Months Liver, Kidney, Ac	drenal gland
Expo	EL cation Route sure time et Organs		Dog 25 mg/kg Oral 6 - 12 Months Adrenal gland Salivation, Lachr	rymation, Vomiting
Speci LOAE Applic Expos	EL cation Route sure time et Organs		Dog 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Saliva	tion
Expos			Monkey 50 mg/kg Subcutaneous 3 Weeks Kidney, inner ea	r
Expos			Monkey 6 mg/kg Intramuscular 3 Weeks Blood, Kidney, ir	nner ear, Liver
Expo	ΞL		Rat 5 mg/kg 10 mg/kg Intramuscular 52 Weeks Kidney, Blood	
Expo	ΞL		Rat 12.5 mg/kg 50 mg/kg Intramuscular 13 Weeks Kidney	
Speci LOAE Applie		:	Rabbit 0.05 % Skin contact 10 - 30 d	



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T			Dir item alam b		
Targ	jet Organs	:	Pituitary gland,	Immune system, muscle	
LÒA Appl Expo			Rat 0.05 % Skin contact 8 Weeks thymus gland		
LÓA Appl Expo	Application Route :		Mouse 0.1 % Skin contact 8 Weeks thymus gland		
LÓA Appl Expo	Species:LOAEL:Application Route:Exposure time:Target Organs:		Dog 0.05 mg/kg Oral 28 d Blood, thymus gland, Adrenal gland		
Aspiration toxicity Not classified based on available		ilable	information.		
Exp	erience with human e>	pos	ure		
Con	ponents:				
clot	rimazole:				
Skin	contact	:	Symptoms: Ras	h, Itching, Blistering, Oedema, Redness	
Inge	stion	:	Symptoms: Abd	lominal pain, Nausea, Vomiting, Diarrhoea	
Gen	tamicin:				
Inge	stion	:	Target Organs:	Kidney	
				inner ear ziness, Vertigo, hearing loss, tinnitus, fetal	

betamethasone:

Inhalation	:	Target Organs: Adrenal gland
Skin contact	:	Symptoms: Redness, pruritis, Irritation



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12. ECOLOGICAL INFORMATION

Ecotoxicity

,		
Components:		
White mineral oil (petroleum) :	
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d
clotrimazole:		
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 0.29 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.02 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.268 mg/l Exposure time: 72 h
		NOEC (Desmodesmus subspicatus (green algae)): 0.017 mg/l Exposure time: 72 h
M-Factor (Acute aquatic tox-	:	10
icity) Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.025 mg/l Exposure time: 32 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.01 mg/l Exposure time: 21 d Method: OECD Test Guideline 211



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		or (Chronic aquatic	:	10	
	toxicity) Toxicity	to microorganisms	:	 EC50: > 10,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 	
	Gentam	nicin:			
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
				LC50 (Americamy Exposure time: 96 Method: US-EPA	5 h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir µg/l Exposure time: 72 Method: OECD Te	
				EC50 (Anabaena Exposure time: 72 Method: OECD Te	
				NOEC (Anabaena Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	100	
	icity) M-Facto	or (Chronic aquatic	:	1	
	toxicity) Toxicity	to microorganisms	:	EC50: 288.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
	betame	thasone:			
		to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 34 ? h



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			OECD Test Guideline 201 s: No toxicity at the limit of solubility
		mg/l Exposur Method:	Pseudokirchneriella subcapitata (green algae)): 34 re time: 72 h OECD Test Guideline 201 s: No toxicity at the limit of solubility
Toxici icity)	ity to fish (Chronic tox-	Exposu	Pimephales promelas (fathead minnow)): 0.052 mg/l e time: 32 d OECD Test Guideline 210
		Exposu	Oryzias latipes (Japanese medaka)): 0.07 μg/l e time: 219 d ΟECD Test Guideline 229
	ity to daphnia and other ic invertebrates (Chron- city)	Exposu	Daphnia magna (Water flea)): 8 mg/l re time: 21 d OECD Test Guideline 211
M-Fac toxicit	ctor (Chronic aquatic y)	: 1,000	
Persi	stence and degradabili	ty	
<u>Comp</u>	oonents:		
White	e mineral oil (petroleum	ı):	
Biode	gradability	Biodegr	Not readily biodegradable. adation: 31 % re time: 28 d
clotri	mazole:		
Stabil	ity in water	: Hydroly	sis: 50 %(242 d)
Genta	amicin:		
Biode	gradability	Biodegr Exposu	rapidly degradable adation: 100 % re time: 28 d OECD Test Guideline 314
Bioad	cumulative potential		
<u>Comp</u>	oonents:		
Genta	amicin:		
	on coefficient: n- ol/water	: log Pow	: < -2



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Partiti	nethasone: ion coefficient: n- ol/water	: log Pow: 2.11		
	l ity in soil ata available			
	rdous to the ozone lay	er		
	r adverse effects ata available			
B. DISPC	SAL CONSIDERATION	IS		
-	osal methods e from residues		accordance with local regulations.	
Conta	aminated packaging	 Do not dispose of waste into sewer. Empty containers should be taken to an approved wast dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product 		
Interr	national Regulations			
UNR UN ni	national Regulations IDG umber er shipping name		NTALLY HAZARDOUS SUBSTANCE, LIQUID	
UNR UN ni Prope Class Packi Label	FDG umber er shipping name ng group	: ENVIRONME N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID , Gentamicin)	
UNR UN nu Prope Class Packi Label Enviro IATA	rDG umber er shipping name ng group s onmentally hazardous -DGR	 ENVIRONME N.O.S. (clotrimazole 9 III 9 yes UN 3082 Environmenta 	, Gentamicin) Illy hazardous substance, liquid, n.o.s.	
UNRT UN nu Prope Class Packi Label Envire IATA UN/IE Prope Class Packi Label Packi	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo	 ENVIRONME N.O.S. (clotrimazole 9 III 9 yes UN 3082 Environmenta 	Illy hazardous substance, liquid, n.o.s. , Gentamicin)	
UNRT UN ni Prope Class Packi Label Envire IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo	 ENVIRONME N.O.S. (clotrimazole 9 III 9 yes UN 3082 Environmenta (clotrimazole 9 III Miscellaneous 	, Gentamicin) Illy hazardous substance, liquid, n.o.s. , Gentamicin)	



Clotrimazole / Gentamicin / Betamethasone (0.1%) Formulation

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		N.O.S. (clotrimazole, Gentamicin)
Class	:	9
Packing group	:	111
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

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.

ERG Code : 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable



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Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Mineral oil	>=90 - <=100	-

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
Mineral oil	-

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

High Pressure Gas Safety Act

Not applicable

Explosive Control Law Not applicable

Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)



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Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation :		Not classified as noxious liquid substance
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Pack transportation : Classified as marine pollutant

Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

Waste Disposal and Public Cleansing Law

Industrial waste

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

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

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / TWA	:	8-hour, 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



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Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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