SAFETY DATA SHEETS

This SDS packet was issued with item: 078946837

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078946836 078946871



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SECTION 1. IDENTIFICATION

Product name	:	Orbifloxacin / Posaconazole / Mometasone Formulation		
Manufacturer or supplier's d	leta	ails		
Company name of supplier	:	Merck & Co., Inc		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				
Recommended use	:	Veterinary product		
Restrictions on use	:	Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Eye irritation	:	Category 2B		
Reproductive toxicity	:	Category 1B		
GHS label elements Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H320 Causes eye irritation. H360Df May damage the unborn child. Suspected of damaging fertility.		
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection and face protection.		
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical attention.		



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P337 + P313 If eye irritation persists: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 50 - < 70
Polyethylene glycol	25322-68-3	>= 30 - < 50
Orbifloxacin	113617-63-3	>= 1 - < 5
Posaconazole	171228-49-2	>= 0.1 - < 1
Mometasone	83919-23-7	>= 0.1 - < 1
Actual concentration is withheld a		>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek 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. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders	:	Causes eye irritation. May damage the unborn child. Suspected of damaging fertili- ty. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment



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Note	es to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.			
SECTIO	N 5. FIRE-FIGHTING ME	ASL	JRES			
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
med		:	None known.			
Spe figh	cific hazards during fire ting	:	Exposure to comb	pustion products may be a hazard to health.		
Haz ucts	ardous combustion prod-	:	Carbon oxides			
Spe ods	cific extinguishing meth-	:	: Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so.			
	cial protective equipment ire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.		
SECTIO	N 6. ACCIDENTAL RELE	AS	E MEASURES			
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).		
Env	ironmental 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 containmen oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 			
	hods and materials for tainment and cleaning up	:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national of disposal of this m employed in the of determine which to Sections 13 and 1	t absorbent material. rovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.		



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SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in 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. Take care to prevent spills, waste and minimize release to the
Conditions for safe storage	:	environment. Keep in properly labeled containers. Keep tightly closed.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL
Polyethylene glycol	25322-68-3	TWA (aero- sol)	10 mg/m³	US WEEL
Orbifloxacin	113617-63-3	TWA	0.2 mg/m3 (OEB 2)	Internal
Posaconazole	171228-49-2	TWA	300 μg/m3 (OEB 2)	Internal
Mometasone	83919-23-7	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



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		protect proc Essentially Use closed If handled in cabinet, fun potential ex	operated in accordance with GMP principles to lucts, workers, and the environment. no open handling permitted. processing systems or containment technologies. n a laboratory, use a properly designed biosafety ne hood, or other containment device if the ists for aerosolization. If this potential does not e over lined trays or benchtops.
Perse	onal protective equip	ment	
Respiratory protection		maintain va concentratio unknown, a Follow OSH use NIOSH by air purify hazardous supplied res release, exp	d local exhaust ventilation is recommended to por exposures below recommended limits. Where ons are above recommended limits or are ppropriate respiratory protection should be worn. IA respirator regulations (29 CFR 1910.134) and /MSHA approved respirators. Protection provided ing respirators against exposure to any chemical is limited. Use a positive pressure air spirator if there is any potential for uncontrolled posure levels are unknown, or any other ce where air purifying respirators may not provide rotection.
	aterial	: Chemical-re	esistant gloves
	emarks protection	: Wear safety If the work mists or ae Wear a face	buble gloving. v glasses with side shields or goggles. environment or activity involves dusty conditions, rosols, wear the appropriate goggles. eshield or other full face protection if there is a to direct contact to the face with dusts, mists, or
Skin	and body protection	 Work uniform or laboratory coat. Additional body garments should be used based upon task being performed (e.g., sleevelets, apron, gauntlei disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove pot contaminated clothing. 	
Hygie	ene measures	: If exposure eye flushing working pla When using Wash conta The effectiv engineering appropriate industrial hy	to chemical is likely during typical use, provide systems and safety showers close to the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: suspension



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	Color		:	white to off-white	
	Odor		:	odorless	
	Odor Th	nreshold	:	No data available	
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosii Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	



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SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Information on likely routes Inhalation Skin contact Ingestion Eye contact	S OT	exposure
Acute toxicity Not classified based on avail	able	information.
Product:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: No significant adverse effects were reported No mortality observed at this dose.
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: No significant adverse effects were reported
<u>Components:</u>		
White mineral oil (petroleu	m):	
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Polyethylene glycol:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials



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	Orbiflox Acute of	xacin: ral toxicity	:	LD50 (Rat): > 3,00 Remarks: No mort	00 mg/kg tality observed at this dose.
				LD50 (Mouse): > 2 Remarks: No mort	2,000 mg/kg tality observed at this dose.
				LD50 (Dog): > 600 Symptoms: Vomiti Remarks: No mort	
1	Acute in	halation toxicity	:	Remarks: No data	available
/	Acute d	ermal toxicity	:	Remarks: No data	available
	Acute to adminis	oxicity (other routes of tration)	:	LD50 (Rat): > 200 Application Route:	
				LD50 (Mouse): 50 Application Route:	
				LD50 (Rat): 233 m Application Route:	
				LD50 (Mouse): 25 Application Route:	
I	Posaco	nazole:			
1	Acute o	ral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
				LD50 (Mouse): > 3	3,000 mg/kg
I	Acute d	ermal toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
	Mometa	asone:			
		ral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
				LD50 (Mouse): > 2	2,000 mg/kg
,	Acute in	halation toxicity	:	LC50 (Rat): > 3.3 Exposure time: 4 I Test atmosphere: Remarks: No mort	า
				LC50 (Mouse): > 3 Exposure time: 4 H Test atmosphere:	n
	Acute to adminis	oxicity (other routes of tration)	:	LD50 (Rat): 300 m Application Route:	



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			Symptoms: Brea	athing difficulties
Skin o	corrosion/irritation			
Not cl	assified based on av	ailable	information.	
Produ	uct:			
Speci			Rabbit	
Resul		:	Mild skin irritatio	on
Comp	oonents:			
White	e mineral oil (petrole	eum):		
Speci		:	Rabbit	
Resul	lt	:	No skin irritatior	1
Polye	ethylene glycol:			
Speci		:	Rabbit	
Metho		:	OECD Test Gui	
Resul		÷	No skin irritation	
Rema	irks	:	Based on data f	from similar materials
Orbif	loxacin:			
Speci		:	Rabbit	
Metho		:	Draize Test	
Resul	It	:	No skin irritatior	1
Posa	conazole:			
Speci	es	:	Rabbit	
Resul	lt	:	No skin irritation	1
Mome	etasone:			
Speci	es	:	Rabbit	
Resul		:	No skin irritation	1
Serio	us eye damage/eye	irritati	on	
Cause	es eye irritation.			
<u>Produ</u>				
Speci		:	Rabbit	
Resul	lt	:	Mild eye irritatio	n
Comp	oonents:			
White	e mineral oil (petrole	eum):		
Speci		:	Rabbit	
Resul	lt	:	No eye irritation	



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Polye Speci Resul Metho Rema	t od	:	Rabbit No eye irritatio OECD Test Gu Based on data	
Orbifl Speci Resul Metho	t	: : :	Rabbit Mild eye irritati Draize Test	on
Posa Speci Resul		:	Rabbit Mild eye irritati	on
Mome Specie Resul		:	Rabbit No eye irritatio	n
-	iratory or skin sensi sensitization	itizatio	n	
Respi	assified based on ava iratory sensitization assified based on ava	Ì		
<u>Produ</u> Test 1 Route Resul	Гуре es of exposure	:	Magnusson-Kl Dermal Not a skin sens	-
<u>Comp</u>	oonents:			
Test 1	es of exposure es	eum):	Buehler Test Skin contact Guinea pig negative	
Test T	es of exposure es t	:	Maximization T Skin contact Guinea pig negative Based on data	Fest from similar materials
Orbifi Test T	loxacin: Гуре	:	Maximization 1	Fest



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Route Speci Resu		: Dermal : Guinea p : Not a ski	n sensitizer.
Posa	conazole:		
Test ⁻ Route Speci Resu	es of exposure les	: Magnuss : Skin con : Guinea p : negative	
Mom	etasone:		
Speci	es of exposure les ssment lt	: Dermal : Guinea p : Does no : negative : The resu	ation Test ig cause skin sensitization. Its of a test on guinea pigs showed this substance to ik skin sensitizer.
	cell mutagenicity lassified based on av	ailable informatic	n.
<u>Com</u>	oonents:		
White	e mineral oil (petrol	eum):	
Geno	toxicity in vitro	: Test Typ Result: n	e: In vitro mammalian cell gene mutation test egative
Geno	toxicity in vivo	cytogene Species: Applicati Method: Result: n	on Route: Intraperitoneal injection OECD Test Guideline 474
Polye	ethylene glycol:		
Geno	toxicity in vitro	Result: n	e: Bacterial reverse mutation assay (AMES) egative :: Based on data from similar materials
Orbif	loxacin:		
Geno	toxicity in vitro	: Test Typ Result: e	e: Bacterial reverse mutation assay (AMES) quivocal
		Test	e: Mouse Lymphoma
		Result: p	



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		Result: positiv	/e			
Genc	otoxicity in vivo	Species: Mou Cell type: Bor	ne marrow oute: Intraperitoneal injection			
		nscheduled DNA synthesis assay er cells oute: Oral ive				
	n cell mutagenicity - ssment	: Weight of evic cell mutagen.	dence does not support classification as a germ			
Posa	iconazole:					
Geno	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive			
		Test Type: Cl Result: negat	nromosomal aberration ive			
Genc	otoxicity in vivo	Species: Mou Cell type: Bor Application R	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intravenous Result: negative			
Mom	etasone:					
Geno	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive			
			nromosomal aberration Chinese hamster lung cells ive			
			nromosomal aberration Chinese hamster ovary cells /e			
		Test Type: M Result: negat	ouse Lymphoma ive			
Genc	otoxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	oute: Oral			
		Test Type: Cl Species: Rat	nromosomal aberration			



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		Cell type: Bo Result: nega	
		Test Type: u Species: Ra Cell type: Liv Result: nega	ver cells
	cell mutagenicity - ssment	: Weight of ev cell mutager	ridence does not support classification as a germ
	nogenicity assified based on ava	ilable information.	
Comp	oonents:		
White	e mineral oil (petrole	um):	
Speci Applic	es cation Route sure time	: Rat : Ingestion : 24 Months : negative	
Orbif	loxacin:		
	cation Route sure time EL	: Rat : Oral : 2 Years : 200 mg/kg b : negative	ody weight
	cation Route sure time EL	: Mouse : Oral : 2 Years : 200 mg/kg b : negative	ody weight
Posa	conazole:		
	cation Route sure time t	: Rat : oral (feed) : 2 Years : positive : The mechan	ism or mode of action is not relevant in humans.
	cation Route sure time t	: Mouse : Oral : 2 Years : positive : The mechan	ism or mode of action is not relevant in humans.
Mome	etasone:		
Speci Applic	es cation Route	: Rat : Inhalation	



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	Exposu Dose Result	re time	: : :	2 Years 0.067 mg/kg body negative	weight
	Species Applica Exposu Dose Result	tion Route		Mouse Inhalation 19 Months 0.160 mg/kg body negative	weight
	IARC				at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
	OSHA			this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
	NTP				at levels greater than or equal to 0.1% is carcinogen by NTP.
	•	luctive toxicity mage the unborn chil	d. Sı	uspected of damagi	ng fertility.
	Compo	onents:			
	White r	nineral oil (petroleu	m):		
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Skin contact
	Effects	on fetal development	: :	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
	Orbiflo	xacin:			
	Effects	on fertility	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 50 mg/kg body weight Development: NOAEL: 50 mg/kg body
	Effects	on fetal development	: :	Species: Rat Application Route Embryo-fetal toxic Result: No teratog	ity.: LOAEL: 333 mg/kg body weight genic effects., Embryotoxic effects and n the offspring were detected only at high
				Test Type: Embry	o-fetal development

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			Embryo-fetal toxic Result: No effects Embryotoxic effect	Maternal: NOAEL: 20 mg/kg body weight sity.: NOAEL: 60 mg/kg body weight s on early embryonic development., sts and adverse effects on the offspring were high maternally toxic doses, Reduced
Repro sessr	oductive toxicity - As- nent	:	Some evidence o animal experimer	f adverse effects on development, based on ts.
Posa	conazole:			
Effect	ts on fertility	:	Species: Rat, mal General Toxicity I	y/early embryonic development e Parent: NOAEL: 180 mg/kg body weight fects on mating performance.
			Species: Rat, fem General Toxicity I	y/early embryonic development lale Parent: NOAEL: 45 mg/kg body weight fects on mating performance.
Effect	ts on fetal development	:	Species: Rat, fem Application Route Developmental To	
			Species: Rabbit, f	oxicity: LOAEL: 40 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	:	Some evidence o animal experimer	f adverse effects on development, based on ts.
Mom	etasone:			
Effect	ts on fertility	:		-

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			weight. Result: No effects	s on fertility., Effect on reproduction capacity.
Effec	ts on fetal development	:	Species: Mouse Application Route Embryo-fetal toxi	city.: LOAEL: 0.06 mg/kg body weight xic effects., Teratogenicity and
			Species: Rat Application Route	city.: LOAEL: 0.3 mg/kg body weight
			Species: Rabbit Application Route Embryo-fetal toxi	yo-fetal development e: Dermal city.: LOAEL: 0.15 mg/kg body weight etal toxicity., Malformations were observed.
			Species: Rat Application Route	city.: LOAEL: 0.15 mg/kg body weight
			Species: Rabbit Application Route Embryo-fetal toxi	yo-fetal development e: Oral city.: LOAEL: 0.7 mg/kg body weight etal toxicity., Malformations were observed.
Repro sessr	oductive toxicity - As- nent	:	animal experimer	f adverse effects on development, based on hts., Some evidence of adverse effects on nd fertility, based on animal experiments.
	F-single exposure lassified based on avail	able	information.	
Com	ponents:			
Mom Rema	etasone: arks	:	Based on availab	le data, the classification criteria are not met.
	F-repeated exposure lassified based on avail	able	information.	
<u>Com</u>	ponents:			
	conazole: es of exposure	:	Ingestion	

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	Target Organs Assessment		 Adrenal gland, Bone marrow, Kidney, Liver, Reproductive organs, Nervous system Causes damage to organs through prolonged or repeated exposure. 				
Ro Ta	ometasone: outes of exposi orget Organs sessment	ure	 inhalation (dust/mist/fume) Immune system, Liver, Kidney, Skin May cause damage to organs through prolonged or repeated exposure. 				
Re	epeated dose	toxicity					
<u>Cc</u>	omponents:						
W	hite mineral o	il (petroleum)):				
LĊ Ap	ecies DAEL oplication Route posure time	e	: : :	Rat 160 mg/kg Ingestion 90 Days			
LĊ Ap Ex	Decies DAEL Oplication Route posure time Dethod	e	:	Rat >= 1 mg/l inhalation (dust/m 4 Weeks OECD Test Guide			
Or	bifloxacin:						
Sp NC LC Ap Ex	pecies DAEL DAEL oplication Route posure time orget Organs	e		Rat 20 mg/kg 80 mg/kg Oral 3 Months Testis, Liver, Kidn	ey, spleen		
NC LC Ap	pecies DAEL DAEL DAEL oplication Route posure time	e	:	Mouse 80 mg/kg 250 mg/kg Oral 3 Months			
NC LC Ap Ex Ta Sy	Decies DAEL DAEL Oplication Route posure time orget Organs ormptoms emarks	e		Juvenile dog 50 mg/kg 250 mg/kg Oral 14 Days Heart, Bone Gastrointestinal di mortality observed			
	oecies DAEL		:	Juvenile dog 2 mg/kg			



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Expo	cation Route sure time et Organs	: 3 mg/kg : Oral : 90 Days : Bone : No significant	adverse effects were reported
		: Dog : 37.5 mg/kg : Oral : 30 Days	
Expo	EL	: Cat : 7.5 mg/kg : 22.5 mg/kg : Oral : 1 Months : Gastrointestina	al disturbance
Speci LOAE Applie Expo		: Rat, female : 5 mg/kg : Oral : 6 Months : Adrenal gland,	Lungs, Heart, Liver, spleen, Kidney, Ovary
Expo		: Dog : 3 mg/kg : Oral : 392 Days : Lungs, Liver, E cord, lymphoid	Brain, small intestine, Adrenal gland, Spinal I tissue
Expo		: Monkey : 15 mg/kg : Oral : 1 Months : Bone marrow,	Adrenal gland, Lymph nodes, Blood
Expo			Bone marrow, Kidney, Nervous system, s gland, Testis, lymphoid tissue
Expo		: Monkey : 180 mg/kg : Oral : 12 Months : Blood, Gastroi	ntestinal tract, spleen
Spec LOAE		: Monkey : 8 mg/kg	



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Expos	cation Route sure time t Organs	: Intravenous : 1 Months : Cardio-vascular system, Lungs, Adrenal gland, Blood
Mome	etasone:	
Expos	EL	 Rat 0.005 mg/kg 0.3 mg/kg Oral 30 d Lymph nodes, Liver, Adrenal gland, Skin, thymus gland
Expos		: Dog : 0.5 mg/kg : Oral : 30 d : Lymph nodes, Liver, Adrenal gland, Skin, thymus gland
Expos		 Rat 0.00013 mg/l inhalation (dust/mist/fume) 90 d Adrenal gland, Lungs, Lymph nodes, spleen, Bone marrow, Kidney, Liver, thymus gland
Expos		 Dog 0.0005 mg/l inhalation (dust/mist/fume) 90 d Adrenal gland, Lungs, Lymph nodes, spleen, Bone marrow, Kidney, thymus gland, Liver
-	ation toxicity	
	assified based on av ponents:	allable information.
Mome	etasone: oplicable	
Expe	rience with human o	exposure
<u>Comp</u>	oonents:	
	oxacin:	· Cumptomo: control non our output officity October intertion
Ingest	แบท	: Symptoms: central nervous system effects, Gastrointestinal disturbance, liver function change, anaphylaxis, Rash Remarks: May cause photosensitization.
Posa	conazole:	
Ingest	tion	: Symptoms: Cough, Headache, Nausea, Vomiting, Fever, Liv effects, Rash, pruritis, Diarrhea, hypertension, neutropenia, electrolyte imbalance



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Mom Inhala	etasone:	· Svr	nntoms: allero	ic rhinitis, Headache, pharyngitis, upper res-
	allon	pira	tory tract infe	ction, sinusitis, oral candidiasis, Back pain, pain, immune system effects, indigestion
Skin	contact		nptoms: Derm	
Furth	ner information			
Com	ponents:			
Mom Rema	etasone: arks	: Der	mal absorptio	n possible

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

White mineral oil (petroleum	ı):	
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
Polyethylene glycol:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 100 mg/l Exposure time: 96 h
		Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Posaconazole:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.95 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.



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		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro 0.509 mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	oxicity tity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
a		to daphnia and other invertebrates (Chron- y)	:	Exposure time: 21 Method: OECD Te	
T	oxicity	to microorganisms	:	EC50 (Natural mid Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
м	lometa	sone:			
T	oxicity	to fish	:	Exposure time: 96	ryllina (Silverside)): 0.11 mg/l 5 h city at the limit of solubility.
				Exposure time: 7	n variegatus (sheepshead minnow)): > 5 mg/l d city at the limit of solubility.
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
				EC50 (Americamy Exposure time: 96 Method: US-EPA Remarks: No toxid	3 h
	oxicity lants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	



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Toxi icity	icity to fish (Chronic tox-)	:	mg/l Exposure time: 3	iles promelas (fathead minnow)): 0.00014 32 d Fest Guideline 210
aqua	icity to daphnia and other atic invertebrates (Chron- xicity)		Exposure time: 2 Method: OECD	magna (Water flea)): 0.34 mg/l 21 d Fest Guideline 211 ricity at the limit of solubility.
Тохі	icity to microorganisms	:		3 h
				ĥ
Pers	sistence and degradabil	ity		
<u>Con</u>	nponents:			
	te mineral oil (petroleur legradability	n): :		ily biodegradable.
			Biodegradation: Exposure time: 2	
-	/ethylene glycol: legradability	:	Result: rapidly de Remarks: Based	egradable on data from similar materials
Pos	aconazole:			
	legradability	:	Biodegradation: Exposure time: 2	
Stat	pility in water	:		ilife (DT50): > 30 d Fest Guideline 111
Mon	netasone:			
	legradability	:	Biodegradation: Exposure time: 2	
Stab	pility in water	:	Hydrolysis: 50 %	o(12 d)



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			Method: OECD T	est Guideline 111
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Parti	ethylene glycol: tion coefficient: n- nol/water	:	log Pow: < 3	
Posa	aconazole:			
Bioad	ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 20 ēst Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 4.15	
Mom	etasone:			
Bioad	ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 107.1 est Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 4.68	
Mob	ility in soil			
<u>Com</u>	ponents:			
Posa	aconazole:			
	ibution among environ- al compartments	:	log Koc: 5.52	
Mom	etasone:			
	ibution among environ- al compartments	:	log Koc: 4.02	
	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues Contaminated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG



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UN number Proper shipping name	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mometasone, Posaconazole)
Class Packing group Labels	: 9 : III : 9
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally bazardous	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Mometasone, Posaconazole) 9 III Miscellaneous 964 964
Environmentally hazardous IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	 yes UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mometasone, Posaconazole) 9 III 9 F-A, S-F yes
Not applicable for product as	to Annex II of MARPOL 73/78 and the IBC Code supplied.
Domestic regulation 49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant Remarks	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Mometasone, Posaconazole) 9 III CLASS 9 171 yes(Mometasone, Posaconazole) Above applies only to containers over 119 gallons or 450 liters. Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

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



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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS T	PQ.

SARA 311/312 Hazards	:	Reproductive toxicity Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know					
White mineral oil (petro	oleum)	8042-47-5			
Polyethylene glycol		25322-68-3			
California List of Hazardous Su	ubstances				
White mineral oil (petro	8042-47-5				
California Permissible Exposure Limits for Chemical Contaminants					
White mineral oil (petro	oleum)	8042-47-5			
The ingredients of this product are reported in the following inventories:					
AICS :	not determined				
DSL :	not determined				
IECSC :	not determined				

SECTION 16. OTHER INFORMATION

Further information





ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	 Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	: 8-hour time weighted average
US WEEL / TWA	: 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response. Compensation. and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)



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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

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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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