



Version 5.0	Revision Date: 2023/12/05		S Number: 308161-00005	Date of last issue: 2023/09/30 Date of first issue: 2022/07/05	
1. PRO	DUCT AND COMPANY ID	ENT	IFICATION		
Ch	emical product name	:	Levamisole / Oxf	endazole Formulation	
Oth	Other means of identification		Scanda (A007130)		
	Supplier's company name, a Company name a		ress and phone n MSD	umber	
Ad	Address		Kumagaya, Saita Menuma factory	ama Prefecture, Xicheng 810 MSD Co., Ltd.	
Te	Telephone		048-588-8411		
E-r	E-mail address		EHSDATASTEWARD@msd.com		
En	nergency telephone numbe	r :	+1-908-423-600)	

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 1B				
Short-term (acute) aquatic hazard	:	Category 1		
Long-term (chronic) aquatic hazard	:	Category 2		
GHS label elements				
Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H360FD May damage fertility. May damage the unborn child. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.		
Precautionary statements	:	Prevention:		





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		P202 Do not ha and understood P273 Avoid rel	ease to the environment. tective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 IF	exposed or concerned: Get medical advice/
		attention. P391 Collect s	billage.
		Storage: P405 Store loc	ked up.

Disposal:

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
levamisole hydrochloride	16595-80-5	8	
oxfendazole	53716-50-0	>= 2.5 - < 10	
Polyethylene glycol stearate	9004-99-3	>= 1 - < 10	
Citric acid	77-92-9	>= 1 - < 10	2-1318
Silicon, amorphous	112945-52-5	> 0 - < 10	1-548

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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	e of eye contact llowed	 Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. 				
Most important symptoms and effects, both acute and delayed		Rinse mouth thoroughly with water. : May damage fertility. May damage the unborn child.				
	ction of first-aiders	and use the recommended personal protective equipme when the potential for exposure exists (see section 8).	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).			
Notes	to physician	: Treat symptomatically and supportively.				
5. FIREFIC	BHTING MEASURES					
Suitat	ble extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
Unsui media	table extinguishing	: None known.				
	fic hazards during fire-	Exposure to combustion products may be a hazard to heal				
	edous combustion prod-	: Carbon oxides				
Speci ods	fic extinguishing meth-	: Use extinguishing measures that are appropriate to lo cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is so.				
	al protective equipment efighters	Evacuate area.In the event of fire, wear self-contained breathing apparaUse personal protective equipment.	atus.			
6. ACCIDE	ENTAL RELEASE MEAS	JRES				
tive e	nal precautions, protec- quipment and emer- procedures	: Use personal protective equipment. Follow safe handling advice (see section 7) and persona tective equipment recommendations (see section 8).	al pro·			
Enviro	onmental 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 containmer barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillage cannot be contained. 				
	ods and materials for inment and cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate cont ment to keep material from spreading. If dyked material be pumped, store recovered material in appropriate con 	can			



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		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 regardin certain local or national requirements.
7. HANDL	ING AND STORAGE	
Hand	lling	
Tech	nical measures	: See Engineering measures under EXPOSURE
Local	/Total ventilation	 CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advic	e on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
	lance of contact one measures	 Oxidizing agents If exposure to chemical is likely during typical use, provide a flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Stora	ige	
	itions for safe storage	 Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Mate	rials to avoid	: Do not store with the following product types: Strong oxidizing agents
Pack	aging material	: Unsuitable material: None known.



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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 / Reference concentration / Permissible con- centration	Basis
levamisole hydrochloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal
	Further inform	ation: Skin		
		Wipe limit	200 µg/100 cm ²	Internal
oxfendazole	53716-50-0	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm ²	Internal
Polyethylene glycol stearate	9004-99-3	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo-

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo-
		sure assessment demonstrates exposures outside the rec-
		anona a dad avidaling a super rearrivatory protoction

Filter type Hand protection	:	ommended guidelines, use respiratory protection. Particulates type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.



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Skin a	nd body protection	:	task being perfo posable suits) to	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially
PHYSIC	AL AND CHEMICAL P	ROP	ERTIES	
Physic	cal state	:	Aqueous solution	n
Colou	r	:	No data availab	le
Odour		:	No data availab	le
Odour	Threshold	:	No data availab	le
Meltin	g point/freezing point	:	No data availab	le
	g point, initial boiling and boiling range	:	No data availab	le
Flamm	nability (solid, gas)	:	Not applicable	
Flamm	nability (liquids)	:	No data availab	le
Up	explosion limit and upp per explosion limit / Up r flammability limit		xplosion limit / fla No data availab	
	wer explosion limit / wer flammability limit	:	No data availab	le
Flash	point	:	No data availab	le
Decon	nposition temperature	:	No data availab	le
рН		:	No data availab	le
Evapo	pration rate	:	No data availab	le
Auto-i	gnition temperature	:	No data availab	le
Viscos Vis	sity cosity, kinematic	:	No data availab	le
	lity(ies) ater solubility	:	No data availab	le
	on coefficient: n- bl/water	:	Not applicable	
Vapou	ır pressure	:	No data availab	le

SAFETY DATA SHEET

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	ity and / or relative densi elative density	ty :	No data availab	e
De	ensity	:	No data availab	e
Relati	ive vapour density	:	No data availab	e
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Molec	cular weight	:	No data availab	e
	le characteristics article size	:	Not applicable	
0. STABI		,		
	tivity nical stability bility of hazardous reac-	:	Stable under no	a reactivity hazard. rmal conditions. trong oxidizing agents.
Condi Incom	itions to avoid npatible materials rdous decomposition ncts	 None known. Oxidizing agents No hazardous decomposition products are known. 		
1. TOXIC		101	N	
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
<u>Produ</u> Acute	uct: e oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 2,000 mg/kg ion method
Comp	oonents:			
levan	nisole hydrochloride:			
Acute	oral toxicity	:	LD50 (Rat): 180	mg/kg
			LD50 (Mouse): 2	23 mg/kg
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SAFETY DATA SHEET



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			LD50 (Rabbit): 4	58 mg/kg	
Acute	inhalation toxicity	:	Remarks: No dat	a available	
Acute	dermal toxicity	:	Remarks: No dat	a available	
oxfen	idazole:				
Acute	oral toxicity	:	LD50 (Rat): > 6,0	000 mg/kg	
			LD50 (Dog): 1,60	00 mg/kg	
			LD50 (sheep): 25	50 mg/kg	
Polye	thylene glycol steara	te:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg	
Citric	acid:				
Acute	oral toxicity	:	LD50 (Mouse): 5	,400 mg/kg	
Acute	dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity		
Silico	on, amorphous:				
Acute	oral toxicity	:		000 mg/kg Fest Guideline 401 on data from similar materials	
Acute	inhalation toxicity	:	tion toxicity	h	
Acute	dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5,000 mg/kg on data from similar materials	
	corrosion/irritation assified based on avail	lable	information.		
	ponents:				
levan	nisole hydrochloride:				
Rema	arks	:	No data available	9	



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Speci Resul	es	: Rabbit	
Resul	t	: No skin irritat	ion
Polye	thylene glycol stea	rate:	
Speci		: Rabbit	
Metho Resul		: Draize Test : No skin irritat	ion
, toou			
	acid:		
Speci		: Rabbit	
Metho Resul		: OECD Test C : No skin irritat	
		. 10 500 1000	
	on, amorphous:		
Speci		: Rabbit	
Metho Resul		: OECD Test C : No skin irritat	
Rema			ta from similar materials
Serio Not cl	us eye damage/eye assified based on av ponents:		
Serio Not cl <u>Com</u> r	assified based on av	ailable information.	
Serio Not cl <u>Com</u> r	assified based on av ponents: nisole hydrochloride	ailable information.	able
Serio Not cl <u>Comp</u> levan	assified based on av ponents: nisole hydrochloride	ailable information.	lable
Serio Not cl <u>Comp</u> levan Rema	assified based on av ponents: hisole hydrochloride arks adazole:	ailable information. e: : No data avail : Rabbit	
Serio Not cl <u>Comp</u> levan	assified based on av ponents: hisole hydrochloride arks adazole:	ailable information. e: : No data avail	
Serio Not cl <u>Comp</u> levan Rema oxfen Speci Resul	assified based on av ponents: hisole hydrochloride arks adazole:	ailable information. e: : No data avail : Rabbit : No eye irritati	
Serio Not cl <u>Comp</u> levan Rema oxfen Speci Resul Polye	assified based on av ponents: nisole hydrochloride arks adazole: es t es t es	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit	ion
Serio Not cl <u>Comp</u> levan Rema oxfen Speci Resul Speci Resul	assified based on av ponents: nisole hydrochloride arks dazole: es t es t es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati	ion
Serio Not cl <u>Comp</u> levan Rema oxfen Speci Resul Polye	assified based on av ponents: nisole hydrochloride arks dazole: es t es t es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit	ion
Serio Not cl <u>Comp</u> levan Rema oxfen Speci Resul Polye Resul Metho	assified based on av ponents: nisole hydrochloride arks dazole: es t es t es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati	ion
Serio Not cl Comp levan Rema Oxfen Speci Resul Metho Citric	assified based on av <u>ponents:</u> nisole hydrochloride arks idazole: es t es t es t acid: es	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati : Draize Test : Rabbit	ion
Serio Not cl Comp levan Rema oxfen Speci Resul Metho Citric Speci Resul	assified based on av <u>ponents:</u> nisole hydrochloride arks idazole: es t es t od acid: es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : Draize Test : Rabbit : Rabbit : Irritation to ey	ion ion yes, reversing within 21 days
Serio Not cl Comp levan Rema Oxfen Speci Resul Metho Citric	assified based on av <u>ponents:</u> nisole hydrochloride arks idazole: es t es t od acid: es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati : Draize Test : Rabbit	ion ion yes, reversing within 21 days
Serio Not cl Comr levan Rema oxfen Speci Resul Metho Citric Speci Resul Metho	assified based on av <u>ponents:</u> nisole hydrochloride arks idazole: es t es t od acid: es t	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : Draize Test : Rabbit : Rabbit : Irritation to ey	ion ion yes, reversing within 21 days
Serio Not cl Comp levan Rema oxfen Speci Resul Metho Citric Speci Resul Metho Silico	assified based on av <u>ponents:</u> nisole hydrochloride arks ndazole: es t es t es t acid: es t od acid: es t od acid: es t od	ailable information. : No data avail : Rabbit : Rabbit : No eye irritati rate: : Rabbit : Draize Test : Rabbit : Irritation to ey : OECD Test G : Rabbit	ion ion yes, reversing within 21 days Guideline 405
Serio Not cl Comr Ievan Rema Oxfen Speci Resul Metho Citric Speci Resul Metho Silico	assified based on av <u>ponents:</u> hisole hydrochloride arks hdazole: es t thylene glycol stea es t od acid: es t od acid: es t od acid: es t od	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati : Draize Test : Rabbit : Irritation to ey : OECD Test C : Rabbit : No eye irritati	ion ion yes, reversing within 21 days Guideline 405
Serio Not cl Comp levan Rema oxfen Speci Resul Metho Citric Speci Resul Metho Silico	assified based on av <u>ponents:</u> hisole hydrochloride arks hdazole: es t thylene glycol stea es t od acid: es t od on, amorphous: es t od	ailable information. : No data avail : Rabbit : No eye irritati rate: : Rabbit : No eye irritati : Draize Test : Rabbit : Irritation to ey : OECD Test O : Rabbit : No eye irritati : OECD Test O	ion ion yes, reversing within 21 days Guideline 405





Respiratory or skin sensitisation Skin sensitisation Not classified based on available information. Respiratory sensitisation Not classified based on available information. Components: levanisole hydrochloride: Remarks : No data available Polyethylene glycol stearate: Test Type : Open epicutaneous test Exposure routes : Skin contact Species : Guinea pig Result : negative Gern cell mutagenicity Not classified based on available information. Components: : evanisole hydrochloride: Ievamisole hydrochloride: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Result: negative Oxfendazole: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Result: negative Genotoxicity in vitro : Test Type: Mutagenicity (in vivo mammalian bone-marked cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Application Route: Oral Result: negative <t< th=""><th>ersion .0</th><th>Revision Date: 2023/12/05</th><th>-</th><th>0S Number: 808161-00005</th><th>Date of last issue: 2023/09/30 Date of first issue: 2022/07/05</th></t<>	ersion .0	Revision Date: 2023/12/05	-	0S Number: 808161-00005	Date of last issue: 2023/09/30 Date of first issue: 2022/07/05
Skin sensitisation Not classified based on available information. Respiratory sensitisation Not classified based on available information. Components: levamisole hydrochloride: Remarks No data available Polyethylene glycol stearate: Test Type : Open epicutaneous test Exposure routes : Skin contact Species : Guinea pig Result : negative Gern cell mutagenicity Not classified based on available information. Components: levamisole hydrochloride: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative					
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Result : negative Germ cell mutagenicity Not classified based on available information. Components: levamisole hydrochloride: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro Result: negative oxfendazole: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative			:		
Germ cell mutagenicity Not classified based on available information. Components: levamisole hydrochloride: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Isonotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Isonotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	_ ·		:		
Ievamisole hydrochloride: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative			ailable	information.	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative					
Result: negative Test Type: Chromosome aberration test in vitro Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative		-		Toot Type: Poot	arial rayaraa mutatian accay (AMES)
Result: negative oxfendazole: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno		•		
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative					
Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marror cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	oxfer	ndazole:			
cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive Polyethylene glycol stearate: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno	toxicity in vitro	:		
Polyethylene glycol stearate: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno	toxicity in vivo	:	cytogenetic test, Species: Mouse Application Rout	chromosomal analysis)
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Citric acid: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Polve	ethvlene alvcol stear	ate:	-	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative			:		
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	II C:1-:-	aaidu			
Test Type: in vitro micronucleus test			:		
				Test Type: in vit	ro micronucleus test



ersion D	Revision Date: 2023/12/05	SDS Number:Date of last issue: 2023/09/3010808161-00005Date of first issue: 2022/07/05
		Result: positive
		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genot	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative
Silico	on, amorphous:	
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genot	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion
		Result: negative Remarks: Based on data from similar materials
Carci	nogenicity	
	nogenicity assified based on av	Remarks: Based on data from similar materials
Not cl		Remarks: Based on data from similar materials
Not cla <u>Comp</u> levam	assified based on ave ponents: hisole hydrochloride	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specia	assified based on ave ponents: hisole hydrochloride es	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specie Applic	assified based on ave <u>conents:</u> hisole hydrochloride es cation Route	Remarks: Based on data from similar materials ailable information.
Not cla Comp levam Specie Applic Expos NOAE	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL	Remarks: Based on data from similar materials ailable information. : Mouse : Oral : 2 Years : 80 mg/kg body weight
Not cla Comp levam Specia Applic Expos	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL	Remarks: Based on data from similar materials ailable information. : Mouse : Oral : 2 Years
Not cla Comp levam Specie Applic Expos NOAE	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL urks	Remarks: Based on data from similar materials ailable information. : Mouse : Oral : 2 Years : 80 mg/kg body weight
Not cl. Comp levam Specia Applic Expos NOAE Rema Specia Applic	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL arks es cation Route	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specia Applica Expos NOAE Rema Specia Applica Expos	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL urks es cation Route sure time	Remarks: Based on data from similar materials ailable information.
Not cl. Comp levam Specia Applic Expos NOAE Rema Specia Applic	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL urks es cation Route sure time EL	Remarks: Based on data from similar materials ailable information.
Not cli Comp levam Specie Applic Expos NOAE Rema Specie Applic Expos NOAE Rema	assified based on ave <u>conents:</u> nisole hydrochloride es cation Route sure time EL urks es cation Route sure time EL	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specia Applic Expos NOAE Rema Specia Applic Expos NOAE Rema oxfen	assified based on aver conents: nisole hydrochloride es cation Route sure time EL arks es cation Route sure time EL arks dazole: es	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specia Applic Expos NOAE Rema Specia Applic Expos NOAE Rema oxfen Specia	assified based on aver conents: nisole hydrochloride es cation Route sure time EL arks es cation Route sure time EL arks dazole: es cation Route	Remarks: Based on data from similar materials ailable information.
Not cla Comp levam Specia Applic Expos NOAE Rema Specia Applic Expos NOAE Rema oxfen Specia Applic Expos NOAE Rema	assified based on aver conents: nisole hydrochloride es cation Route sure time EL arks es cation Route sure time EL arks dazole: es cation Route sure time EL arks	Remarks: Based on data from similar materials ailable information.
Not cla Comp levam Specia Applic Expos NOAE Rema Specia Applic Expos NOAE Rema oxfen Specia Applic Expos Specia Applic Expos Specia Specia Applic Expos Specia Specia Applic Expos Specia	assified based on aver conents: nisole hydrochloride es cation Route sure time EL arks es cation Route sure time EL arks dazole: es cation Route sure time EL arks	Remarks: Based on data from similar materials ailable information.
Not cla <u>Comp</u> levam Specia Applica Expose NOAE Rema Specia Applica Expose NOAE Rema oxfen Specia Applica Expose Symp Targe	assified based on aver conents: nisole hydrochloride es cation Route sure time EL arks es cation Route sure time EL arks ddazole: es cation Route sure time toms toms of Organs	Remarks: Based on data from similar materials ailable information.





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sure time toms t Organs	::		cts
on, amorphous:			
es cation Route sure time t	:	Rat Ingestion 103 weeks negative Based on data f	rom similar matarials
oductive toxicity	lamage		
oonents:			
nisole hydrochloride s on fertility	:	Species: Rat Application Rout	e-generation reproduction toxicity study e: Oral icant adverse effects were reported
s on foetal develop-	:	Species: Rat Application Rou Developmental	Foxicity: NOAEL: 20 mg/kg body weight
		Species: Rabbit Application Rou Developmental	Foxicity: LOAEL: 40 mg/kg body weight
oductive toxicity - As- nent	:		of adverse effects on development, based cents.
idazole:			
s on fertility	:	Species: Rat, m Application Rou Fertility: NOAEL Target Organs:	e: Oral : 17 mg/kg body weight Testes
		Species: Rat Application Rout Fertility: NOAEL	: 0.9 mg/kg body weight _iver
	2023/12/05 sure time toms to Organs on, amorphous: es cation Route sure time t triks oductive toxicity damage fertility. May do <u>conents:</u> hisole hydrochloride s on fertility s on foetal develop-	2023/12/05 108 sure time : toms : tongans : on, amorphous: : es : cation Route : sure time : t : oductive toxicity damage fertility. May damage ponents: nisole hydrochloride: s on fortility s on foetal develop- : oductive toxicity - As- oductive toxicity - As- intaction oductive toxicity - As- intaction intaction s on foetal develop- : intactive toxicity - As- : intactive toxicity - As- : intactive toxicity - As- : intactive toxicity - As-	2023/12/05 10808161-00005 sure time : 2 Years toms : No adverse effect torgans : Liver es : Rat cation Route : Ingestion sure time : 103 weeks t : negative atta : : poductive toxicity : Based on data fr poductive toxicity : Son fertility : s on fertility : Test Type: Three Species: Rat Application Rout Result: No signif s on foetal develop- : Test Type: Embis s on foetal develop- : Test Type: Embis species: Rat Application Rout Developmental Result: Fetotoxic Test Type: Embis Species: Rat Application Rout : Some evidence animal experime <td< td=""></td<>



Version Revision Date: .0 2023/12/05		SDS Number: 10808161-00005	Date of last issue: 2023/09/30 Date of first issue: 2022/07/05
			e ute: Oral gle Treatment: 1 Months L: 750 mg/kg body weight Testes
Effect ment	s on foetal develop-	Species: Rat Application Rou	Toxicity: NOAEL: 10 mg/kg body weight
		Species: Rat Developmental	oryo-foetal development Toxicity: NOAEL: 10 mg/kg body weight , Embryo-foetal toxicity
		Species: Mouse Application Rou Developmental	
		Species: Rabbi Application Rou	
Repro sessn	oductive toxicity - As- nent	ity, based on ar	of adverse effects on sexual function and fernimal experiments., Clear evidence of advers lopment, based on animal experiments.
Citric	acid:		
Effect ment	s on foetal develop-	: Test Type: One Species: Rat Application Rou Result: negative	
Silico	on, amorphous:		
	s on foetal develop-	Species: Rat Application Rou Result: negative	

STOT - single exposure

Not classified based on available information.



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Com	ponents:		
	: acid: ssment	: May cause resp	iratory irritation.
Not c	F - repeated exposure lassified based on ava ponents:		
levar Targe	nisole hydrochloride : et Organs ssment	: Blood, Testis	age to organs through prolonged or repeated
Expo Targe	n dazole: sure routes et Organs ssment	: Oral : Liver, Testis : May cause dam exposure.	age to organs through prolonged or repeated
-	eated dose toxicity ponents:		
	nisole hydrochloride:	:	
Spec NOA Appli Expo	ies	: Rat : 2.5 mg/kg : Oral : 18 Months : Testis	
Expo		: Dog : 20 mg/kg : Oral : 18 Months : Blood	
		: Dog : 40 mg/kg : Oral : 3 Months	
Spec NOA Appli Expo		: Rat : 11 mg/kg : Oral : 2 Weeks : Blood, Liver, Te	stis



Version 5.0	Revision Date: 2023/12/05	SDS Number: 10808161-00005	Date of last issue: 2023/09/30 Date of first issue: 2022/07/05
Expos		: Rat : 3.8 mg/kg : Oral : 3 Months : Liver, Testis	
Expos		: Mouse : 750 mg/kg : Oral : 1 Months : Liver	
Expos		: Mouse : 37.5 mg/kg : Oral : 3 Months : Liver	
Speci NOAE Applic Expos Rema	EL cation Route sure time	: Dog : 6 mg/kg : Oral : 1 Months : No significant	adverse effects were reported
Expos		: Dog : 11 mg/kg : Oral : 2 Weeks : Lymph nodes,	thymus gland
Expos	es EL cation Route sure time et Organs	: Dog : 13.5 mg/kg : Oral : 12 Months : Liver	
Speci NOAE LOAE Applio	EL	: Rat : 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days	
Speci NOAE Applic	EL cation Route sure time	: Rat : 1.3 mg/l : inhalation (dus : 13 Weeks : Based on data	st/mist/fume) a from similar materials



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Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

levamisole hydrochloride:

Ingestion

L

: Symptoms: Nausea, Vomiting, Headache, Dizziness, hypotension

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

levamisole hydrochloride:

levamisole hydrochloride:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
oxfendazole:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 2.7 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 2.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.059 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	10
	:	NOEC (Daphnia magna (Water flea)): 0.023 mg/l Exposure time: 21 d



ersion 0	Revision Date: 2023/12/05		DS Number: 808161-00005	Date of last issue: 2023/09/30 Date of first issue: 2022/07/05
		_		
ic toxi	citv)		Method [,] OFCD T	est Guideline 211
toxicit	ctor (Chronic aquatic y)	•	1	
Polye	thylene glycol stearate	e :		
Toxici	ty to fish	:	LC50 (Leuciscus Exposure time: 9 Method: DIN 384	
Toxici	ty to microorganisms	:	EC10 (Bacteria): Exposure time: 1	
Citric	acid:			
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 100 mg 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 24	nagna (Water flea)): 1,535 mg/l 4 h
Silico	n, amorphous:			
Toxici	ty to fish	:	Exposure time: 9 Method: OECD T	o (zebra fish)): > 10,000 mg/l 6 h ēst Guideline 203 on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 24 Method: OECD T	nagna (Water flea)): > 1,000 mg/l 4 h Test Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7: Method: OECD T	smus subspicatus (green algae)): > 10,0 2 h Test Guideline 201 on data from similar materials
			mg/l Exposure time: 7: Method: OECD T	esmus subspicatus (green algae)): 10,00 2 h ⁻ est Guideline 201 on data from similar materials
II Persig	stence and degradabili	itv		
	_			
Comp	oonents:			

Stability in water : Hydrolysis: < 5 %(4 d)



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Polve	ethylene glycol stearat	e:		
	egradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD	> 70 %
Citric	c acid:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD	97 %
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	n dazole: tion coefficient: n- nol/water	:	log Pow: 1.95	
Citric	c acid:			
	Partition coefficient: n- : octanol/water		log Pow: -1.72	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	ndazole: bution among environ- al compartments	:	log Koc: 3.2	
	rdous to the ozone lay	er		
	r adverse effects ata available			
13. DISPO	DSAL CONSIDERATION	٧S		
Dien	osal methods			
-	e from residues	:		cordance with local regulations.
Conta	aminated packaging	:	Empty containers	f waste into sewer. s should be taken to an approved waste han- rcling or disposal.

If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG





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UN nu	mber	:	UN 3082	
Proper shipping name		:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class			9	
	g group	÷	Ĩ	
Labels		:	9	
Enviro	nmentally hazardous	:	yes	
ΙΑΤΑ-Ι	DGR			
UN/ID	-	:	UN 3082	
	shipping name	:		nazardous substance, liquid, n.o.s.
Class		:	9	
	Packing group		111	
Labels		:	Miscellaneous	
Packin aircraf	g instruction (cargo t)	:	964	
Packin ger air	g instruction (passen- craft)	:	964	
Enviro	nmentally hazardous	:	yes	
IMDG-	Code			
UN nu		:	UN 3082	
Proper	shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class			(oxfendazole)	
Class	g group	÷	9 III	
Labels		:	9	
EmS C		:	5 F-A, S-F	
	e pollutant	÷	yes	
		ı to		POL 73/78 and the IBC Code

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.





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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

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
levamisole hydrochloride	>0 - <10	From April 1st, 2025
Amorphous silica (silica gel, precipitated	>0 - <10	From April 1st, 2026
silica)		

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
levamisole hydrochloride	From April 1st, 2025
silica gel	From April 1st, 2026

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



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Poisonous and Deleterious Substances Control Law

 Deleterious substance
 Cabinet Order Number

 Chemical name
 Cabinet Order Number

 (S)-2,3,5,6-Tetrahydro-6-phenylimidazo[2,1-b]thiazole, its salts and preparations containing some of them
 71.3

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)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Noxious liquid substance(Category Z)
---------------------	---	--------------------------------------

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

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-



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Sheet

cy, http://echa.europa.eu/

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

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 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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