

Version 2.0	Revision Date: 15.02.2022	SDS Number: 50000533	Date of last issue: - Date of first issue: 19.02.2019				
SECTION	1: Identification	of the substance/m	ixture and of the company/undertaking				
1.1 <u>Produc</u>	ct identifier						
Produ	uct name	Rovral® Flo					
Other	means of identific	ation					
Produ	uct code	50000533					
1.2 Releva	Int identified uses o	of the substance or m	ixture and uses advised against				
Use o	f the Sub- e/Mixture	: Fungicide	-				
1.3 Details	s of the supplier of	the safety data sheet					
Supplier Address		FMC Chemicals (Pty) Ltd Company Registration Number: 1988/001451/07 West End Office Park, Building C Cnr. West Ave & Hall Street					
		Centurion, 00					
		E-mail addres mation)	s: SDS-Info@fmc.com (E-Mail General Infor-				
1.4 <u>Emer</u>	gency telephone						
			spill or accident emergencies, call: 0-800-983-611 (CHEMTREC)				
			gency: gency or poisoning contact: Griffon Poison In e (24 hrs) - +27-(0)-82-446-8946				
SECTION	2: Hazards ident	ification					
	I 2: Hazards ident						

Classification (INEGULATION (EC) NO 121	2/2000)
Acute toxicity, Category 4	H332: Harmful if inhaled.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.



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Long-t egory	erm (chronic) aquatic l 1	haza	ard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2.2 Label e	lements			
	ng (REGULATION (E d pictograms	C) N :	No 1272/2	
Signal	Word	:	Warning	
Hazaro	d Statements	:	H351 S	Harmful if inhaled. Suspected of causing cancer. /ery toxic to aquatic life with long lasting effects.
Precau	utionary Statements	:	P261 / P273 / P280 \ tion/face P304 + F air and k CENTEF	Dbtain special instructions before use. Avoid breathing mist or vapors. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protec- e protection/ hearing protection.

Hazardous ingredients which must be listed on the label: iprodione (ISO)

Additional Labeling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

CAS-No. EC-No.	Classification	Concentration (% w/w)
Index-No.		



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				Registration	number		
		ating oils (petroleum) reated neutral oil-bas		72623-86-0 276-737-9 649-482-00-2		Carc. 1B; H350 Asp. Tox. 1; H304	>= 30 - < 50
	iprodio	ne (ISO)		36734-19-7 253-178-9 616-054-00-9)	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 20 - < 25
	Styrylp phate	henol polyethoxyest	er phos-	90093-37-1		Eye Irrit. 2; H319	>= 1 - < 10
	Tristyr	ylphenol ethoxylates		99734-09-5		Aquatic Chronic 3; H412	>= 1 - < 2.5
	1,2-be	nzisothiazol-3(2H)-oi	ne	2634-33-5 220-120-9 613-088-00-(5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.0025 - < 0.025
						M-Factor (Acute aquatic toxicity): 10	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Induce vomiting immediately and call a physician.



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			Do not give m Never give an If symptoms p	ory tract clear. ilk or alcoholic beverages. lything by mouth to an unconscious person. persist, call a physician. nmediately to hospital.
4.2 Most i	mportant symptoms a	nd e		-
Risks		:	Harmful if inhat Suspected of	aled. causing cancer.
4.3 Indica	tion of any immediate	med	lical attention	and special treatment needed
Treatr	ment	:	Treat symptor	matically.
SECTION	1 5: Firefighting meas	sure	es	
•	uishing media	:	Dry chemical,	CO2, water spray or regular foam.
Unsui media	itable extinguishing	:	Do not spread streams.	spilled material with high-pressure water
5.2 Specia	al hazards arising from	n the	substance or	mixture
-	fic hazards during fire	:		un-off from fire fighting to enter drains or water
Hazaı ucts	rdous combustion prod-	:	Thermal deco and vapors. Nitrogen oxide Carbon oxide Chlorine com	S
5.3 Advice	e for firefighters			
	al protective equipment e-fighters	:	Firefighters sh breathing app	nould wear protective clothing and self-containe aratus.
Speci ods	fic extinguishing meth-	:	SO.	amaged containers from fire area if it is safe to o pray to cool fully closed containers.
Furthe	er information	:	Use extinguis	cedure for chemical fires. hing measures that are appropriate to local cir- ind the surrounding environment.
			must not be d Fire residues	ninated fire extinguishing water separately. This ischarged into drains. and contaminated fire extinguishing water mus of in accordance with local regulations.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :	Evacuate personnel to safe areas. Use personal protective equipment. If it can be safely done, stop the leak. Do not touch or walk through the spilled material. Ensure adequate ventilation. Never return spills in original containers for re-use. For disposal considerations see section 13.
6.2 Environmental precautions	
Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for conta	ainment and cleaning up
Methods for cleaning up :	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
6.4 Reference to other sections	
	See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	 Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol.
		When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.



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7.2 Cond	itions for safe storage,	incl	uding any incom	patibilities	
Requirements for storage areas and containers			Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Observe labe precautions. Electrical installations / working materials mu comply with the technological safety standards.		
Advie	ce on common storage	:	Do not store near	acids.	
	er information on stor- stability	:	No decomposition	n if stored and applied as directed.	

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
Lubricating oils (petro- leum), C15-30, hy- drotreated neutral oil- based	Workers	Inhalation	Long-term systemic effects	2.73 mg/m3
	Workers	Dermal	Long-term systemic effects	0.970 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.740 mg/kg bw/day
	Workers	Inhalation	Long-term local ef- fects	5.58 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1.19 mg/m3
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m3
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

 Substance name
 Environmental Compartment
 Value



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	cating oils (petroleum) ydrotreated neutral oil- d		Oral		9.33 mg/kg
propa	ne-1,2-diol		Fresh water		260 mg/l
			Intermittent us	se/release	183 mg/l
			Sea water		26 mg/l
			Sewage treatr	ment plant	20 g/l
			Fresh water se	ediment	572 mg/kg
			Sea sediment		57.2 mg/kg
			Soil		50 mg/kg
1,2-b	enzisothiazol-3(2H)-or	ne	Fresh water		0.00403 mg/l
			Sea water		0.000403 mg/l
			Sewage treatr	ment plant	1.03 mg/l
			Fresh water s	ediment	0.0499 mg/l
			Sea sediment		0.00499 mg/l

8.2 Exposure controls

Personal protective equipm	ent	
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Hand protection		
Material	:	Protective gloves
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Protective suit
		Impervious clothing Choose body protection according to the amount and concen- tration of the dangerous substance at the work place.
Protective measures	:	Plan first aid action before beginning work with this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	4.2 (26 °C)
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available



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	Flash point		:	> 95 °C	
	Upper explosion limit / Upper flammability limit		:	No data available	2
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	No data available	9
	Relativ	e density	:	1.024 (20 °C)	
	Density		:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	dispersible	
	Partitio octano	n coefficient: n- I/water	:	No data available	9
	Autoigr	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, dynamic	:	68 mPa.s (20 °C)
	Viso	cosity, kinematic	:	No data available	9
9.2	Other ir Self-igr	nformation nition	:	430 °C	

SECTION 10: Stability and reactivity

		No decomposition if stored and applied as directed.
10.2 Chemical stability		
		No decomposition if stored and applied as directed.
10.3 Possibility of hazardous read	ctio	ns
Hazardous reactions	:	No decomposition if stored and applied as directed.
10.4 Conditions to avoid		
Conditions to avoid	:	Avoid extreme temperatures Avoid formation of aerosol.
10.5 Incompatible materials		
Materials to avoid	:	Avoid strong acids, bases, and oxidizers.



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sition products	
ical information	
logical effects	
: LD50 (Rat): > 2 Assessment: T single ingestior	he component/mixture is minimally toxic after
EXPOSITE CONTRACT	: 4 h ere: dust/mist The component/mixture is moderately toxic after
: LD50 (Rat): > 2 Assessment: T single contact v	he component/mixture is minimally toxic after
oleum), C15-30, hydrotrea	ated neutral oil-based:
Method: OECD	e and female): > 5,000 mg/kg D Test Guideline 401 ed on data from similar materials
Exposure time: Test atmosphe Assessment: T tion toxicity	
Method: OECD	nale and female): > 5,000 mg/kg D Test Guideline 402 ed on data from similar materials
: LD50 (Rat): 3,7	700 mg/kg
2 : LC50 (Rat): > 5 Exposure time: Test atmosphe Assessment: T tion toxicity	:4h
: LD50 (Rat): > 2	2,500 mg/kg
,	Assessment: T short term inha : LD50 (Rat): > 2 Assessment: T single contact of LD0 (Rat, male Method: OECE Remarks: Base : LC50 (Rat, male Method: OECE Remarks: Base : LC50 (Rat, male Test atmosphe Assessment: T tion toxicity Remarks: Base : LD0 (Rabbit, m Method: OECE Remarks: Base : LD0 (Rabbit, m Method: OECE Remarks: Base : LD50 (Rat): 3,7 : LC50 (Rat): > 8 Exposure time Test atmosphe Assessment: T tion toxicity



sion	Revision Date: 15.02.2022	SDS Number: 50000533	Date of last issue: - Date of first issue: 19.02.2019					
Styry	Iphenol polyethoxy	ester phosphate:						
Acute	oral toxicity	: LD50 (Rat): >	: LD50 (Rat): > 5,000 mg/kg					
Acute dermal toxicity			LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity					
Tristy	vrylphenol ethoxylat	es:						
-	oral toxicity	: LD50 (Rat, ma Method: OEC	ale and female): > 5,000 mg/kg D Test Guideline 401 ed on data from similar materials					
Acute	dermal toxicity	Method: OEC	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma					
1,2-be	enzisothiazol-3(2H)-	one:						
Acute	oral toxicity		ale and female): 490 mg/kg D Test Guideline 401					
			estimate: 490 mg/kg Ilation method					
Acute	dermal toxicity	Method: OEC	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma					
	corrosion/irritation assified based on av	ailable information						
Produ								
Resul		: No skin irritati	on					
<u>Comp</u>	oonents:							
Lubri	cating oils (petroleu	ım), C15-30, hydrotre	eated neutral oil-based:					
Speci		: Rabbit						
Resul Rema		: No skin irritation: Based on data	a from similar materials					
iprod	ione (ISO):							
		: Rabbit						
Speci		: No skin irritati	on					
Speci Resul	t							
Resul	t Iphenol polyethoxy	ester phosphate:						
Resul	Iphenol polyethoxy es	ester phosphate: : Rabbit : No skin irritati						



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Tristy	/rylphenol ethoxylat	es:		
Speci	es	: F	Rabbit	
Metho			DECD Test Gu	
Resu	lt	: 1	No skin irritatio	n
1,2-b	enzisothiazol-3(2H)-	one:		
Speci			Rabbit	
	sure time		72 h	
Metho			DECD Test Gu	
Resu	I	: 1	No skin irritatio	n
	us eye damage/eye			
	lassified based on ava	ailable in	formation.	
Produ				
Resul	lt	: 1	No eye irritation	n
<u>Com</u>	oonents:			
		ım), C15	-30, hydrotrea	ated neutral oil-based:
Speci			Rabbit	
Resu			No eye irritatio	
Rema	arks	: 1	Based on data	from similar materials
iprod	ione (ISO):			
Speci	es	: F	Rabbit	
Resu	lt	: 1	No eye irritation	n
Styry	Iphenol polyethoxy	ester ph	osphate:	
Speci	es	: F	Rabbit	
Resu	lt	: 1	rritation to eye	s, reversing within 21 days
Tristy	/rylphenol ethoxylat	es:		
Speci	es	: F	Rabbit	
Metho		: (DECD Test Gu	ideline 405
Resu	lt	: 1	No eye irritation	n
1,2-b	enzisothiazol-3(2H)-	one:		
Speci		: E	Bovine cornea	
Metho			DECD Test Gu	
Resu	lt	: 1	No eye irritation	n
Speci Metho			Rabbit EPA OPP 81-4	
Resu				ects on the eye
i teau	it.	. 1		

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Skin s Not cla	ratory or skin sensitiz ensitization	atic		
Not cla			n	
	assified based on availa	able	information.	
Resni	ratory sensitization			
-	assified based on availa	able	information.	
Produ	ict:			
Result	:	:	Not a skin sens	itizer.
<u>Comp</u>	onents:			
Lubric	cating oils (petroleum), C [.]	15-30, hydrotrea	ted neutral oil-based:
Test T			Buehler Test	
Specie		:	Guinea pig	
Result		:		skin sensitization.
Rema	rks	:	Based on data f	from similar materials
iprodi	one (ISO):			
Specie		:	Guinea pig	
Metho		÷	EPA OPP 81-6	
Result		•	Does not cause	skin sensitization.
Styryl	phenol polyethoxyes	er p	hosphate:	
Result	:	:	Does not cause	skin sensitization.
1,2-be	enzisothiazol-3(2H)-on	e:		
Test T	уре	:	Maximization Te	est
Specie		:	Guinea pig	
Metho		:	OECD Test Gui	
Result		-	May cause sens	sitization by skin contact.
Specie	es	:	Guinea pig	
Metho	-	:	FIFRA 81.06	
Result		:	May cause sens	sitization by skin contact.
Germ	cell mutagenicity			
Not cla	assified based on availa	able	information.	
<u>Produ</u>	ict:			
Germ	cell mutagenicity- As-	:		nce does not support classification as a ge
sessm	ient		cell mutagen.	
<u>Comp</u>	onents:			
Lubric	cating oils (petroleum), C [,]	15-30, hydrotrea	ted neutral oil-based:
Genot	oxicity in vitro	:		rse mutation assay
			Result: negative	
				d on data from similar materials
			Test Type: reve	erse mutation assay
			12 / 26	



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			Result: positiv Remarks: Bas	e ed on data from similar materials				
			Test Type: gene mutation test Method: OECD Test Guideline 476 Result: negative					
				ed on data from similar materials				
			Test Type: gene mutation test Method: OECD Test Guideline 476 Result: positive					
				ed on data from similar materials				
			Test Type: Cl Result: negati	romosome aberration test in vitro ve				
			Remarks: Bas	ed on data from similar materials				
Geno	toxicity in vivo	:	Species: Mou Application Re Method: OEC Result: negati	cronucleus test se (male and female) oute: Intraperitoneal injection D Test Guideline 474 ve sed on data from similar materials				
iprod	ione (ISO):							
•	toxicity in vitro	:		romosome aberration test in vitro Chinese hamster ovary cells ve				
				ter chromatid exchange assay Chinese hamster ovary cells ve				
Germ sessn	cell mutagenicity- As- nent	:	Weight of evid cell mutagen.	lence does not support classification as a germ				
Styry	Iphenol polyethoxyes	ter p	phosphate:					
Germ sessn	cell mutagenicity- As- nent	:	No genotoxic	potential				
Tristy	vrylphenol ethoxylates	5:						
Geno	toxicity in vitro	:		verse mutation assay D Test Guideline 471 ve				
Geno	toxicity in vivo	:	Remarks: No	data available				
1,2-be	enzisothiazol-3(2H)-on	e:						
	toxicity in vitro	:	Test system: Metabolic acti	ne mutation test nouse lymphoma cells vation: with and without metabolic activation D Test Guideline 476				



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			Result: negative		
			Test Type: Ames Method: OECD T Result: negative	test est Guideline 471	
				nosome aberration test in vitro est Guideline 473	
Genotoxicity in vivo		:	Species: Rat (ma Cell type: Liver co Application Route Exposure time: 4	ells e: Ingestion	
			Test Type: Micro Species: Mouse Application Route Method: OECD T Result: negative		
Germ sessm	cell mutagenicity- As- ent	:	Weight of evidene cell mutagen.	ce does not support classification as a gern	
Carcin	nogenicity				
Suspe	cted of causing cancer.				
<u>Produ</u>	<u>ct:</u>				
Carcin ment	Carcinogenicity - Assess-		Limited evidence of carcinogenicity in animal studies		
Comp	onents:				
Lubric	ating oils (petroleum)), C 1	5-30, hydrotreate	ed neutral oil-based:	
Specie	• ,	:	Mouse, female		
	ation Route	:	Dermal		
	ure time	:	78 weeks		
Result Remar		:	negative	om similar materials	
Remar	KS	-	Based on data in	om similar materials	
iprodi	one (ISO):				
Specie		:	Rat		
		: positive			
Result		•	Testicular effects		
	oms	•			
Result		:	Mouse		
Result Sympt	es	:	positive		
Result Sympt Specie Result Sympt	28	:		5	



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Carci ment	nogenicity - Assess-	:	Limited evider	nce of carcinogenicity in animal studies
Styry	Iphenol polyethoxyes	ter p	hosphate:	
Carci ment	nogenicity - Assess-	:	Weight of evic cinogen	lence does not support classification as a car-
-	oductive toxicity lassified based on avail	abla	information	
Produ		able	information.	
	oductive toxicity - As-	:	Weight of evic ductive toxicity	lence does not support classification for repro-
Com	oonents:			
Lubri	cating oils (petroleum	1), C ²	15-30, hydrotre	eated neutral oil-based:
Effect	s on fertility	:	Species: Rat, Application Ro Dose: 1000 m General Toxic General Toxic Method: OEC Result: negati	g/kg/day ity Parent: NOAEL: 1,000 mg/kg body weight ity F1: NOAEL: >= 1,000 mg/kg bw/day D Test Guideline 421
Effect	s on fetal development	:	Species: Rat Application Ro Dose: 0,8,30, Duration of Sin General Toxic Developmenta Result: Embry spring were de	productive and developmental toxicity study bute: Dermal 125,500,1000mg/kg/day ngle Treatment: 20 d ity Maternal: LOAEL: 8 mg/kg body weight al Toxicity: LOAEL: 125 mg/kg bw/day rotoxic effects and adverse effects on the off- etected only at high maternally toxic doses and on data from similar materials
iprod	ione (ISO):			
Repro sessn	oductive toxicity - As- nent	:	Weight of evic ductive toxicity	lence does not support classification for repro- /
Styry	Iphenol polyethoxyes	ter p	hosphate:	
Repro sessn	oductive toxicity - As- nent	:	No toxicity to r	reproduction
1,2-b	enzisothiazol-3(2H)-oı	ne:		
	s on fertility	:		



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	productive toxicity - As- sment	:	Weight of evic ductive toxicit	dence does not support classification for repro- y
	DT-single exposure classified based on ava	ilable	information.	
Con	nponents:			
ipro	odione (ISO):			
Ass	essment	:		e or mixture is not classified as specific target t, single exposure.
Sty	rylphenol polyethoxye	ster p	hosphate:	
-	essment	:	The substanc	e or mixture is not classified as specific target t, single exposure.
	DT-repeated exposure classified based on ava	ilable	information.	
Con	nponents:			
ipro	dione (ISO):			
Ass	essment	:		e or mixture is not classified as specific target t, repeated exposure.
Sty	rylphenol polyethoxye	ster p	hosphate:	
Ass	essment	:		e or mixture is not classified as specific target t, repeated exposure.
1,2-	benzisothiazol-3(2H)-o	one:		
Ass	essment	:		e or mixture is not classified as specific target t, repeated exposure.
Rep	eated dose toxicity			
Con	nponents:			
Lub	ricating oils (petroleur	m), C1	5-30, hydrotro	eated neutral oil-based:
	cies	:	Rat, male	
LOA Aqq	AEL lication Route	:	125 mg/kg bw Oral - gavage	
Exp	osure time	:	13 weeks	
Dos Ren	e narks	:	125 or 500 m Based on data	g/kg/day a from similar materials
Sne	cies		Rat, male and	l female
NO		:	980 mg/m3	



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Test a		: Inhalation : vapor : 28 d : 0, 50, 220 or 1 : Based on data	000 mg/m3 from similar materials
	EL EL sure time od	 Rabbit, male a 1000 mg/kg bv 2000 mg/kg bv Dermal 28 d 200,1000,2000 OECD Test Gu Based on data 	//day //day Img/kgbw/day
iprod Speci NOEL		: Rat, male : 30.8 mg/kg	
	- sure time	: 90 d	
Speci NOEL Expos		: Rat, female : 35.8 mg/kg : 90 d	
	enzisothiazol-3(2H)-		
	EL cation Route sure time od	: Rat, male and : 15 mg/kg : Ingestion : 28 d : OECD Test Gu : Irritation	
	EL cation Route sure time	: Rat, male and : 69 mg/kg : Ingestion : 90 d : Irritation, Redu	

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based: May be fatal if swallowed and enters airways.

iprodione (ISO):

The substance does not have properties associated with aspiration hazard potential.



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	Styrylphenol polyethoxyester phosphate: No aspiration toxicity classification								
F	Furthe	r information							
_	Product: Remarks : No data available								
SEC	TION	12: Ecological infor	ma	tion					
12.1 ⁻	Toxicit	y							
F	Produc	st:							
T	Toxicity	to fish	:	LC50 (Fish): 24 m Exposure time: 96	•				
		to daphnia and other invertebrates	:	EC50 (Daphnia): Exposure time: 48					
	Toxicity plants	v to algae/aquatic	:	ErC50 (algae): 12 Exposure time: 72					
E	Ecotox	icology Assessment							
		aquatic toxicity		Very toxic to aqua	tic life.				
(Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.				
<u>(</u>	Compo	onents:							
L	Lubrica	ating oils (petroleum)), C 1	15-30, hydrotreate	d neutral oil-based:				
7	Toxicity	v to fish	:	Exposure time: 96 Method: OECD To Remarks: Based					
		to daphnia and other invertebrates	:		3 h				
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To					
٢	Toxicity	to microorganisms	:	NOEL (Photobact Exposure time: 10	erium phosphoreum): > 1.93 mg/l) min				



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Toxicii icity)	ty to fish (Chronic tox-	:	NOELR: >= 1,0 Exposure time: Species: Oncor Method: QSAR	
	ty to daphnia and other c invertebrates (Chron- city)	:	Test Type: sem	21 d ia magna (Water flea)
Toxicity to terrestrial organ- isms		:	NOEC: 5,000 p Exposure time: Species: Anas p	
iprodi	one (ISO):			
-	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 4.1 mg/l 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 0.25 mg/l 48 h
Toxicit plants	ty to algae/aquatic	:	EC50 (Scenede Exposure time:	esmus subspicatus): > 0.5 mg/l 72 h
M-Fac icity)	tor (Acute aquatic tox-	:	1	
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: 0.17 mg Exposure time: Species: Daphn	
M-Fac toxicity	etor (Chronic aquatic y)	:	1	
Toxicit ganisr	ty to soil dwelling or- ns	:	LC50: > 1,000 r Exposure time: Species: Eisenia	
Toxicit isms	ty to terrestrial organ-	:	LD50: > 2,000 r Species: Colinu	ng/kg s virginianus (Bobwhite quail)
			LD50: >250 Exposure time: Species: Apis m Remarks: Conta	nellifera (bees)
			LD50: >25 Exposure time: Species: Apis m Remarks: Oral	



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			Exposure time: 48 Remarks: Based o	h on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 24	agna (Water flea)): 550 mg/l l h on data from similar materials
Trist	tyrylphenol ethoxylates:	:		
Toxi	city to fish	:	LC50 (Brachydan Exposure time: 96 Method: OECD Te	
Toxi	city to microorganisms	:	Remarks: No data	available
1,2-ł	penzisothiazol-3(2H)-on	e:		
Toxi	city to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96 Test Type: static t	
			LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: static t Method: OECD Te	est
Toxi plan	city to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
M-Fa icity)	actor (Acute aquatic tox-	:	10	
Toxi	city to microorganisms	:	EC50 (activated s Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
			EC50 (activated s Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition



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12.2 Persi	stence and degradabi	lity		
<u>Comp</u>	onents:			
Lubrie	cating oils (petroleum), C [,]	15-30, hydrotreate	ed neutral oil-based:
Biode	gradability	:	Inoculum: activate Result: Inherently Biodegradation: Exposure time: 28 Method: OECD T	/ biodegradable. 31 %
			Biodegradation: 2 Exposure time: 2	ently biodegradable. 2 - 8 %
iprodi	ione (ISO):			
-	gradability	:	Result: Not readil Remarks: It unde waste water treat	rgoes degradation in the environment and in
Styryl	phenol polyethoxyest	ter p	hosphate:	
Biode	gradability	:	Result: Not readil	y biodegradable.
Tristv	rylphenol ethoxylates	:		
-	gradability	:	Result: Not readil Biodegradation: Exposure time: 20 Method: OECD T	8 %
1.2-be	enzisothiazol-3(2H)-on	e:		
	gradability	:	Result: rapidly bio Method: OECD T	odegradable est Guideline 301C
12.3 Bioac	cumulative potential			
Comp	oonents:			
iprodi	ione (ISO):			
Bioaco	cumulation	:	Bioconcentration Remarks: Bioacc	s macrochirus (Bluegill sunfish) factor (BCF): 70 umulation is unlikely. octanol-water partition coefficient.
	on coefficient: n- bl/water	:	log Pow: 3 (25 °C pH: 5	
Tristy	rylphenol ethoxylates	:		
	on coefficient: n- bl/water	:	Remarks: No data	a available
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1 2-h	enzisothiazol-3(2H)-or	<u>م</u> .		
	cumulation	:	Exposure time Bioconcentrati Method: OECE Remarks: This	mis macrochirus (Bluegill sunfish) : 56 d on factor (BCF): 6.62 D Test Guideline 305 substance is not considered to be persistent, ng and toxic (PBT).
	ion coefficient: n- ol/water	:	log Pow: 0.7 (2 pH: 7	20 °C)
			log Pow: 0.99 pH: 5	(20 °C)
12.4 Mobi	ility in soil			
Com	ponents:			
iprod	lione (ISO):			
	bution among environ- al compartments	:	Remarks: Low	mobility in soil.
1,2-b	enzisothiazol-3(2H)-or	ne:		
	bution among environ- al compartments	:		Koc: 0.97 D Test Guideline 121
12.5 Resı	llts of PBT and vPvB a	isses	ssment	
Prod	uct:			
Asse	ssment	:	to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects			
Prod	uct:			
Endo tial	crine disrupting poten-	:	ered to have e REACH Article	e/mixture does not contain components consid ndocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 a or higher.
Addit matic	ional ecological infor- m	:		ntal hazard cannot be excluded in the event of I handling or disposal.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number		
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iprodione) ()
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (Iprodione) (Iprodione)
14.3 Transport hazard class(es)		
IMDG	:	9
ΙΑΤΑ	:	9
14.4 Packing group		
IMDG Packing group Labels EmS Code	:	III 9 F-A, S-F
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	964 Y964 III Miscellaneous
IATA (Passenger) Packing instruction (passen- ger aircraft)	:	964



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Packing instruction (LQ) Packing group Labels 14.5 Environmental hazards		: Y964 : III : Miscellaneous	
IMDG Marine pollutant		: yes	
14.6 Speci	ial precautions for u	Iser	

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.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The ingredients of this product are reported in the following inventories: TCSI : Not in compliance with the inventory			
1631	·	Not in compliance with the inventory	
TSCA	:	Product contains substance(s) not listed on TSCA inventory.	
AIIC	:	Not in compliance with the inventory	
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.	
		3-(3,5-DICHLOROPHENYL)-N-ISOPROPYL-2,4- DIOXOIMIDAZOLIDINE-1-CARBOXAMIDE sodium hydroxide Styrylphenol polyethoxyester phosphate	
ENCS	:	Not in compliance with the inventory	
ISHL	:	Not in compliance with the inventory	
KECI	:	Not in compliance with the inventory	
PICCS	:	Not in compliance with the inventory	
IECSC	:	Not in compliance with the inventory	
NZIoC	:	Not in compliance with the inventory	
TECI	:	Not in compliance with the inventory	



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15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H350 :	May cause cancer.
H351 :	Suspected of causing cancer.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.
H411 :	Toxic to aquatic life with long lasting effects.
H412 :	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Asp. Tox. :	Aspiration hazard
	Carcinogenicity
Eye Dam. :	Serious eye damage
Eye Irrit. :	Eye irritation
Skin Irrit. :	Skin irritation
Skin Sens. :	Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-



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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Other information

Classification of the m	nixture:	Classification procedure:
Acute Tox. 4	H332	Based on product data or assessment
Carc. 2	H351	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

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