

Versio 1.0	on Revision Date: 29.11.2023		S Number:)00150	Date of last issue: - Date of first issue: 29.11.2023						
Sectio	Section 1: Identification									
F	roduct name	:	ROVRAL® WP							
R	Recommended use of the chemical and restrictions on use									
F	ecommended use	:	Can be used as	fungicide only.						
F	estrictions on use	:	Use as recomme For professional	ended by the label. users only.						
N	lanufacturer or supplier's	detai	ils							
C	Company	:	FMC New Zeala	nd Ltd						
Д	ddress	:	Level 5, 3 Te Ke Mount Wellington Auckland 1060 New Zealand							
т	elephone	:	+640800658080							
Т	elefax	:	(09)-271-2961							
E	-mail address	:	SDS-Info@fmc.c	com						
E	mergency telephone numbe	er :	0800 734 607 (l) Medical emerger 0800 764 766 (N 0800 111174 (24	,						

Section 2: Hazard identification

GHS Classification		
Specific target organ toxicity - repeated exposure	:	Category 2
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements

ROVRAL® WP



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Haza	rd pictograms		¥2
Signa	l word	: Warning	
Haza	rd statements	peated expos	use damage to organs through prolonged or re- ure. kic to aquatic life with long lasting effects.
Preca	autionary statements	: Prevention: P260 Do not I P273 Avoid re	preathe dust. elease to the environment.
		Response: P314 Get me P391 Collect	dical advice/ attention if you feel unwell. spillage.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
iprodione (ISO)	36734-19-7	>= 30 -< 50
kaolin	1332-58-7	>= 30 -< 50
Alcohols, C12-15, ethoxylated	68131-39-5	>= 1 -< 2.5
Silicic acid, aluminum sodium salt	1344-00-9	>= 1 -< 10

Section 4: 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	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and water. Take off all contaminated clothing immediately. Call a physician if irritation develops or persists.
In case of eye contact	:	Flush eyes with water as a precaution.



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				Remove contact I Protect unharmed Keep eye wide op If eye irritation pe	l eye.		
	If swallowed			 Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious persolif symptoms persist, call a physician. Take victim immediately to hospital. 			
		portant symptoms ects, both acute and t	:				
	Notes t	o physician	:	Treat symptomati	cally.		
Sect	ion 5: F	Fire-fighting measure	s				
	Suitable	e extinguishing media	:	Foam Dry chemical Carbon dioxide (C Water spray	202)		
	Unsuita media	ble extinguishing	:	High volume wate	er jet		
	Specific fighting	c hazards during fire-	:	Do not allow run-o courses.	off from fire fighting to enter drains or water		
	Hazard ucts	ous combustion prod-	:	Thermal decompo and vapours. Nitrogen oxides (I Carbon oxides Chlorine compour			
	Specific ods	c extinguishing meth-	:	must not be disch Fire residues and	ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.		
	Special for firefi	protective equipment ghters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-		
	Hazche	em Code	:	2Z			

Section 6: Accidental release measures

Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Pick up and arrange disposal without creating dust.



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					s in original containers for re-use. iderations see section 13.		
E	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 respective authorities. 			
		s and materials for ment and cleaning up	:	Pick up and trans creating dust. Move it to a safe	fer to properly labeled containers without place.		
				Keep in suitable,	closed containers for disposal.		
Secti	ion 7: ŀ	landling and storage	•				
		on protection against explosion	:	Avoid dust format Provide appropria is formed.	ion. te exhaust ventilation at places where dust		
ļ	Advice	on safe handling	:	Do not breathe va Avoid exposure - Avoid contact with For personal prote Smoking, eating a plication area.	obtain special instructions before use.		
ł	Hygiene	e measures	:	When using do no When using do no Wash hands befo			
(Conditio	ons for safe storage	:	place. Containers which kept upright to pre Observe label pre	cautions. ions / working materials must comply with		
	Further age sta	information on stor- bility	:	Keep in a dry plac No decompositior	ce. n if stored and applied as directed.		

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
kaolin	1332-58-7	WES-TWA	10 mg/m3	NZ OEL
		WES-TWA	2 mg/m3	NZ OEL



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				(Respirable dust)			
				TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH	
Silicio salt	acid, aluminum sodium		1344-00-9	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3 (Aluminium)	ACGIH	
Perso	onal protective equipme	ent	:				
Respiratory protection : Use respiratory protection unless a ventilation is provided or exposure a that exposures are within recomme			sure assessment de	monstrates			
Fil	lter type	:	Particulates ty	/pe			
	protection aterial	: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.				minate,	
Re	emarks	:		r for a specific w ucers of the prot	orkplace should be c ective gloves.	liscussed	
Eye p	protection	:	: Eye wash bottle with pure water Tightly fitting safety goggles				
Skin a	and body protection	:	Choose body		it rding to the amount a ubstance at the work		
Prote	ctive measures	:	Plan first aid a	action before be	ginning work with this	s product.	

Section 9: Physical and chemical properties

Physical state	:	solid
Form	:	powder
Colour	:	grey
Odour	:	slight
Odour Threshold	:	No data available
рН	:	5 - 6 (1% emulsion)
Melting point/range	:	No data available

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	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Flamma	ability (solid, gas)	:	Will not burn	
	Self-ign	ition	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	1.024 g/cm3	
	Bulk de	nsity	:	224 - 368 kg/m3	
	Solubili Wat	ty(ies) er solubility	:	dispersible	
	Solu	bility in other solvents	:	No data available	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, dynamic	:	68 mPa,s (20 °C)
	Visc	osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle	size	:	No data available	

Section 10: Stability and reactivity

Reactivity

: No decomposition if stored and applied as directed.



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Che	mical stability	:	No decompositio	on if stored and applied as directed.
Pos tion	sibility of hazardous reac- s	• :		n if stored and applied as directed. xplosive mixture in air.
Cor	ditions to avoid	:	Heat, flames and Avoid extreme te	•
Inco	mpatible materials	:	Avoid strong acid	ds, bases, and oxidizers
	ardous decomposition ducts	:	Nitrogen oxides Sulphur oxides Carbon oxides Halogenated cor	· · /

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Acute oral toxicity :	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50 (Rat, male and female): > 5.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Components:	
<u>Components:</u> iprodione (ISO):	
	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The component/mixture is minimally toxic after single ingestion.



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			Remarks: no mor	tality
Acute	e dermal toxicity	:	Method: EPA OPI Symptoms: Irritati GLP: yes	ion component/mixture is minimally toxic after
kaoli	n:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD T	
			LD50: > 2,000 mg Method: OECD To Assessment: The icity	
Acute	e inhalation toxicity	:	LC50 (Rat): 36 m Exposure time: 1 Test atmosphere:	ĥ
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
			LD50: > 2,000 mg Method: OECD To Assessment: The toxicity	
Alco	hols, C12-15, ethoxylat	ted:		
Acute	e oral toxicity	:	Acute toxicity esti Method: Expert ju	
Acute	e inhalation toxicity	:	Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity	dust/mist
Acute	e dermal toxicity	:	Method: OECD To Assessment: The toxicity	and female): > 2,000 mg/kg est Guideline 402 substance or mixture has no acute dermal on data from similar materials
Silici	c acid, aluminum sodi	um	salt:	
Acute	e oral toxicity	:	Method: OECD T	and female): 10,000 mg/kg est Guideline 401 on data from similar materials
Acute	e inhalation toxicity	:	LC0 (Rat, male ar	nd female): > 2.08 mg/l



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Acute	e dermal toxicity	: LD50 (Rabbit) Method: OECI	: > 5,000 mg/kg D Test Guideline 402
Skin	corrosion/irritation		
Not c	lassified due to lack of	data.	
Prod	uct:		
Spec Meth Resu	od	: Rabbit : OECD Test G : slight irritation	
<u>Com</u>	ponents:		
iproc	lione (ISO):		
Spec	ies ssment od	: Rabbit : Not classified : EPA OPP 81-4 : No skin irritatio : yes	5
kaoli	n:		
Meth Resu		: OECD Test G : No skin irritatio	
Alco	hols, C12-15, ethoxyl	ated:	
Spec Meth Resu Rema	od It	: Rabbit : OECD Test G : No skin irritatio : Based on data	
Silici	c acid, aluminum so	dium salt:	
Spec Resu		: Rabbit : No skin irritatio	on
	ous eye damage/eye i d on available data, th		a are not met.
Prod			
Spec		: Rabbit	
Resu Meth	lt	: No eye irritatio : OECD Test G	



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<u>Com</u>	ponents:		
iproc	lione (ISO):		
Spec		: Rabbit	
Resu		: No eye irritatio	n
Meth	od	: EPA OPP 81-4	
Rema	arks	: Based on avai	lable data, the classification criteria are not m
kaoli	n:		
Resu	lt	: No eye irritatio	n
Meth	od	: OECD Test G	uideline 405
Alco	hols, C12-15, ethox	ylated:	
Resu	lt	: Irreversible eff	ects on the eye
Silici	c acid, aluminum s	odium salt:	
Spec		: Rabbit	
Resu	lt	: No eye irritatio	n
Resp	piratory or skin sens	sitisation	
	sensitisation		
Skin	Sensilisation		
		the classification criteria	a are not met.
Base	d on available data, t		a are not met.
Base Resp		n	a are not met.
Base Resp Not c	d on available data, f iratory sensitisatio lassified due to lack	n	a are not met.
Base Resp Not c <u>Prod</u>	d on available data, t iratory sensitisatio lassified due to lack <u>uct:</u>	n of data.	
Base Resp Not c <u>Prod</u> Test	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type	n of data. : Local lymph ne	a are not met. ode assay (LLNA)
Base Resp Not c <u>Prod</u> Test Spec	d on available data, f iratory sensitisatio lassified due to lack uct: Type ies	n of data.	ode assay (LLNA)
Base Resp	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od	n of data. : Local lymph no : mice	ode assay (LLNA) uideline 429
Base Resp Not c Prod Test Spec Meth Resu	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od	n of data. : Local lymph no : mice : OECD Test G	ode assay (LLNA) uideline 429
Base Resp Not c Prod Test Spec Meth Resu Com	d on available data, f iratory sensitisatio lassified due to lack uct: Type ies od It	n of data. : Local lymph no : mice : OECD Test G	ode assay (LLNA) uideline 429
Base Resp Not c Prod Test Spec Meth Resu Com	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO):	n of data. : Local lymph no : mice : OECD Test G	ode assay (LLNA) uideline 429
Base Resp Not c Prod Test Spec Meth Resu <u>Com</u>	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Not a skin sen : Buehler Test : Guinea pig	ode assay (LLNA) uideline 429 sitizer.
Base Resp Not c Prod Test Spec Meth Resu Com iproc Test Spec Asse	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Buehler Test : Guinea pig : Not a skin sen	ode assay (LLNA) uideline 429 sitizer. sitizer.
Base Resp Not c Prod Test Spec Asse Meth	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od	n of data. : Local lymph nd : mice : OECD Test G : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6	ode assay (LLNA) uideline 429 sitizer. sitizer.
Base Resp Not c Prod Test Spec Meth Resu Com iproc Test Spec Asse	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od	n of data. : Local lymph nd : mice : OECD Test G : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6	ode assay (LLNA) uideline 429 sitizer. sitizer.
Base Resp Not c Prod Test Spec Asse Meth	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It	n of data. : Local lymph nd : mice : OECD Test G : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6	ode assay (LLNA) uideline 429 sitizer. sitizer.
Base Resp Not c Prod Test Spec Meth Resu Com iproc Asse Meth Resu	d on available data, f piratory sensitisatio lassified due to lack uct: Type ies od It ponents: lione (ISO): Type ies ssment od It n:	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation. uideline 429
Base Resp Not c Prod Test Spec Aesu iproc Test Spec Asse Meth Resu kaoli	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It n: od	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation.
Base Resp Not c Prod Test Spec Meth Resu Meth Resu Kaoli Meth Resu	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It n: od	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi : Does not caus	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation. uideline 429
Base Resp Not c Prod Test Spec Meth Resu Meth Resu Kaoli Meth Resu	d on available data, i piratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It n: od It hols, C12-15, ethox	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi : Does not caus	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation. uideline 429 e skin sensitisation.
Base Resp Not c Prod Test Spec Meth Resu Com iproc Test Spec Asse Meth Resu kaoli Meth Resu kaoli Test	d on available data, i piratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It n: od It hols, C12-15, ethox	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi : Does not caus ylated:	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation. uideline 429 e skin sensitisation.
Base Resp Not c Prod Test Spec Meth Resu Com iproc Test Spec Asse Meth Resu kaoli Meth Resu kaoli Test	d on available data, f iratory sensitisatio lassified due to lack <u>uct:</u> Type ies od It ponents: lione (ISO): Type ies ssment od It n: od It hols, C12-15, ethox Type sure routes ies	n of data. : Local lymph nd : mice : OECD Test Gi : Not a skin sen : Buehler Test : Guinea pig : Not a skin sen : EPA OPP 81-6 : Does not caus : OECD Test Gi : Does not caus ylated: : Maximisation	ode assay (LLNA) uideline 429 sitizer. sitizer. e skin sensitisation. uideline 429 e skin sensitisation. Γest



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Resul Rema		:	Not a skin ser Based on dat	nsitizer. a from similar materials
Chro	nic toxicity			
	cell mutagenicity assified due to lack o	f data.		
Com	oonents:			
-	ione (ISO): toxicity in vitro	:	Test Type: Ar Metabolic act Result: negati	vation: with and without metabolic activation
			Test system:	vitro DNA damage and/or repair study Bacillus subtilis ivation: with and without metabolic activatior /e
			Test system:	nromosome aberration test in vitro Chinese hamster ovary cells ivation: with and without metabolic activatior ive
			Test system:	ster chromatid exchange assay Chinese hamster ovary cells ivation: with and without metabolic activatior ive
Geno	toxicity in vivo	:	Test Type: Mi Species: Mou Result: negati	
kaolii	n:			
Geno	toxicity in vitro	:	Test Type: Ar Method: OEC Result: negat	D Test Guideline 471
Geno	toxicity in vivo	:	Remarks: No	data available
Alcoł	nols, C12-15, ethoxy	lated:		
	toxicity in vitro	:	Method: OEC Result: negati	nromosome aberration test in vitro D Test Guideline 473 ive sed on data from similar materials
			Result: negati	D Test Guideline 471
Geno	toxicity in vivo	:		cronucleus test se (male and female)



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		Method: OECD Result: negativ	ute: Intraperitoneal injection Test Guideline 474 e ed on data from similar materials
		Species: Rat (r Method: OECD Result: negativ	e marrow chromosome aberration nale and female) Test Guideline 475 e ed on data from similar materials
Silici	c acid, aluminum sod	lium salt:	
Geno	toxicity in vitro	Method: OECD Result: negativ	itro mammalian cell gene mutation test Test Guideline 476 e ed on data from similar materials
Geno	toxicity in vivo	Species: Rat (r Application Rou Result: negativ	ute: Oral
	nogenicity lassified due to lack of	data.	
Not c		data.	
Not cl <u>Com</u> iprod	lassified due to lack of ponents: ione (ISO):		
Not cl <u>Com</u> iprod Speci	lassified due to lack of ponents: ione (ISO):	: Rat, male : 2 y : 6.1 mg/kg bw/c	
Not cl <u>Com</u> iprod Speci Expos Resul Symp	lassified due to lack of <u>conents:</u> lione (ISO): les sure time	: Rat, male : 2 y	/day .ts
Not cl <u>Comj</u> iprod Speci Expos Resul Symp Targe Speci	lassified due to lack of <u>conents:</u> lione (ISO): les sure time lt toms et Organs	 Rat, male 2 y 6.1 mg/kg bw/c 12.4 mg/kg bw/c positive Testicular effec Adrenal gland, Rat, female 2 y 8.4 mg/kg bw/c 	/day .ts Testes ay
Not cl <u>Comj</u> iprod Speci Expos Resul Symp Targe Speci Expos	lassified due to lack of <u>ponents:</u> lione (ISO): les sure time It toms et Organs les	 Rat, male 2 y 6.1 mg/kg bw/c 12.4 mg/kg bw/ positive Testicular effect Adrenal gland, Rat, female 2 y 	/day .ts Testes ay

Silicic acid, aluminum sodium salt:

Rat, male and female
Oral
103 weeks
negative
Based on data from similar materials



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Not c	oductive toxicity lassified due to lack of da ponents:	ata.		
-	lione (ISO): ts on foetal develop-	:	Developmental To Symptoms: Redu tion rate Species: Rat General Toxicity I Developmental To	Maternal: NOAEL: 20 mg/kg bw/day oxicity: NOAEL: 60 mg/kg bw/day ced body weight, Total Resorptions / resorp- Maternal: NOAEL: 20 mg/kg bw/day oxicity: NOAEL: 20 mg/kg bw/day ced body weight, foetal mortality drenal gland
kaoli Effect	n: ts on fertility	:	Remarks: No data	a available
Effect ment	ts on foetal develop-	:	Remarks: No data	a available
Effect	h ols, C12-15, ethoxylate ts on fertility ts on foetal develop-	ed:	Fertility: NOAEC Method: OECD T Result: negative Remarks: Based Test Type: reproc Species: Rat Application Route General Toxicity I Embryo-foetal tox Method: OECD T Result: negative	le and female :: Dermal : Parent: NOAEL: 250 mg/kg body weight Mating/Fertility: 250 mg/kg body weight est Guideline 416 on data from similar materials luctive and developmental toxicity study
Not c <u>Com</u> j	Γ - single exposure lassified due to lack of da ponents:	ata.		
-	l ione (ISO): ssment	:	The substance or organ toxicant, sin	mixture is not classified as specific target ngle exposure.



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kaoli	n:			
Rema		:	No significant a	adverse effects were reported
STO	Γ - repeated exposure			
	cause damage to organ		ough prolonged	or repeated exposure.
Prod	uct:			
-	ssment	:		or mixture is classified as specific target orga ted exposure, category 2.
<u>Com</u>	ponents:			
iprod	lione (ISO):			
-	ssment	:		or mixture is not classified as specific target repeated exposure.
kaoli	n:			
Asse	ssment	:		or mixture is not classified as specific target repeated exposure.
Repe	ated dose toxicity			
Com	ponents:			
	<u>ponents:</u> lione (ISO):			
iprod Spec	lione (ISO): ies	:	Rat, male	
iprod Spec NOA	lione (ISO): ies EL	:	78 mg/kg	
iproc Spec NOAI LOAE	lione (ISO): ies EL EL	:	78 mg/kg 151 mg/kg	
iproc Spec NOAI LOAE Appli	lione (ISO): ies EL EL cation Route	:	78 mg/kg 151 mg/kg Oral	
iprod Spec NOAI LOAE Appli Expo	lione (ISO): ies EL EL cation Route sure time	:	78 mg/kg 151 mg/kg Oral 90 d	
iprod Spec NOAI LOAE Appli Expo	lione (ISO): ies EL EL cation Route	:	78 mg/kg 151 mg/kg Oral	organs
iprod Spec NOAI LOAE Appli Expo	lione (ISO): ies EL EL cation Route sure time et Organs		78 mg/kg 151 mg/kg Oral 90 d	rgans
iproc Spec NOA LOAE Appli Expo Targe Spec NOA	lione (ISO): ies EL EL cation Route sure time et Organs ies EL		78 mg/kg 151 mg/kg Oral 90 d Reproductive c Rat, female 89 mg/kg	organs
iproc Spec NOAI LOAE Applie Expo Targe Spec NOAI LOAE	lione (ISO): ies EL EL cation Route sure time et Organs ies EL		78 mg/kg 151 mg/kg Oral 90 d Reproductive o Rat, female 89 mg/kg 189 mg/kg	organs
iproc Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli	lione (ISO): ies EL EL cation Route sure time et Organs ies EL EL EL cation Route		78 mg/kg 151 mg/kg Oral 90 d Reproductive of Rat, female 89 mg/kg 189 mg/kg Oral	rgans
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iproc Spec NOAI LOAE Appli Expo Targe Spec NOAI Expo Targe Spec NOAI LOAE Appli Expo	lione (ISO): ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs		78 mg/kg 151 mg/kg Oral 90 d Reproductive of Rat, female 89 mg/kg 189 mg/kg Oral 90 d Reproductive of Rat, male 28 mg/kg 207 mg/kg Inhalation 28 d	
iproc Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe Spec	lione (ISO): ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL EL cation Route sure time et Organs		78 mg/kg 151 mg/kg Oral 90 d Reproductive of Rat, female 89 mg/kg 189 mg/kg Oral 90 d Reproductive of Rat, male 28 mg/kg 207 mg/kg Inhalation 28 d Adrenal gland Rat, female	
iproc Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe	lione (ISO): ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs		78 mg/kg 151 mg/kg Oral 90 d Reproductive of Rat, female 89 mg/kg 0ral 90 d Reproductive of Rat, male 28 mg/kg 207 mg/kg Inhalation 28 d Adrenal gland Rat, female 43 mg/kg 241 mg/kg Inhalation	
iproc Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe Spec NOAI LOAE Appli Expo Targe	lione (ISO): ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs ies EL EL EL cation Route sure time et Organs		78 mg/kg 151 mg/kg Oral 90 d Reproductive of Rat, female 89 mg/kg 189 mg/kg Oral 90 d Reproductive of Rat, male 28 mg/kg 207 mg/kg Inhalation 28 d Adrenal gland Rat, female 43 mg/kg 241 mg/kg	



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kaoli	n:			
Rema	arks	:	No data availa	ble
Alcol	hols, C12-15, ethoxy	lated:		
Speci	ies	:	Rat, male and	female
NOA		:	500 mg/kg	
Applie	cation Route	:	Oral	
Expo	sure time	:	90d	
Metho	od	:	OECD Test Gu	uideline 408
Rema	arks	:	Based on data	from similar materials
Silici	c acid, aluminum so	dium	salt:	
Speci	ies	:	Rat, male and	female
NOA	EL	:	2,500 - 3,200 r	ng/kg
	cation Route	:	Oral	
•	sure time	:	2 years	
Rema	arks	:	Based on data from similar materials	
Speci	ies	:	Rat, male and	female
NOA		:	0.0013 mg/l	
	cation Route	:	Inhalation	
	sure time	:	13 weeks	
Rema	arks	:	Based on data	from similar materials
Aspii	ration toxicity			
Not c	lassified due to lack o	of data.		
Com	ponents:			

iprodione (ISO):

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

Further information

Product:

Remarks

: No data available

Section 12: Ecological information

Ecotoxicity		
Components:		
iprodione (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.25 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus subspicatus): > 0.5 mg/l Exposure time: 72 h



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M-F icity	Factor (Acute aquatic tox- /)	:	1		
To» icity	ticity to fish (Chronic tox- /)	:	NOEC (Fish): 0.26 mg/l Exposure time: 21 d		
aqu	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		NOEC (Daphnia magna (Water flea)): 0.17 mg/l Exposure time: 21 d		
	Factor (Chronic aquatic city)	:	1		
	cicity to soil dwelling or- isms	:	LC50 (Eisenia feti Exposure time: 14	da (earthworms)): > 1,000 mg/kg ⊦d	
To» ism	cicity to terrestrial organ- s	:	LD50 (Colinus vir	ginianus (Bobwhite quail)): > 2,000 mg/kg	
			LD50 (Apis mellife Exposure time: 48 Remarks: Contact		
			LD50 (Apis mellife Exposure time: 48 Remarks: Oral	era (bees)): > 25 μg/bee 3 h	
kad	olin:				
То>	ticity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
	cicity to daphnia and other natic invertebrates	:	 EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 		
To» pla	ticity to algae/aquatic nts	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
aqu	cicity to daphnia and other natic invertebrates (Chron- pxicity)	:	Remarks: No data available		
То	cicity to microorganisms	:	Remarks: No data available		
Alc	ohols, C12-15, ethoxylate	ed:			
To>	ricity to fish	:	Exposure time: 96	(zebra fish)): > 2 mg/l 5 h on data from similar materials	
То	cicity to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): > 2 mg/l	



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ac	uatic invertebrates		Exposure time: 48 Method: OECD Te Remarks: Based o	
	oxicity to algae/aquatic ants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials	
	oxicity to fish (Chronic tox- ty)	:	NOEC (Pimephales promelas (fathead minnow)): 0.11 - 0.28 mg/l Exposure time: 30 d Remarks: Based on data from similar materials	
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	End point: Immob Exposure time: 21	
			End point: reprodu Exposure time: 21	
То	oxicity to microorganisms	:	Exposure time: 16	nas putida): > 10 g/l b.9 h on data from similar materials
	oxicity to soil dwelling or- anisms	:	LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg	
Si	licic acid, aluminum sodiu	ım s	salt:	
Тс	oxicity to fish	:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te	
	oxicity to daphnia and other quatic invertebrates	:	 EL50 (Daphnia magna (Water flea)): 10,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials 	
	oxicity to algae/aquatic ants	:	EL50 (Desmodes Exposure time: 72 Method: OECD Te	
Pe	ersistence and degradabili	ty		
<u>C</u>	omponents:			
-	rodione (ISO):			
Bi	odegradability	:	Result: Not readily	/ biodegradable.
St	ability in water	:	Degradation half I	ife (DT50): 146 d pH: 5



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		Degradatio	n half life (DT50): 0.2 d pH: 8
kaolir	1 :		
	gradability		The methods for determining biodegradability are ble to inorganic substances.
Alcoh	ols, C12-15, ethoxy	lated:	
	gradability	: Result: Rea Method: Ol	adily biodegradable. ECD Test Guideline 301B Based on data from similar materials
Silici	c acid, aluminum so	dium salt:	
	gradability	: Remarks: 7	The methods for determining biodegradability are ble to inorganic substances.
Bioac	cumulative potentia	I	
<u>Comp</u>	oonents:		
iprod	ione (ISO):		
Bioac	cumulation	Bioconcent Remarks: E	epomis macrochirus (Bluegill sunfish) ration factor (BCF): 70 Bioaccumulation is unlikely. n 9 for octanol-water partition coefficient.
	on coefficient: n- ol/water	: log Pow: 3 pH: 7	(20 °C)
kaolir	ו:		
Bioac	cumulation	: Remarks: E	Bioaccumulation is unlikely.
	on coefficient: n- ol/water	: Remarks: N	Not applicable
Alcoh	ols, C12-15, ethoxy	lated:	
Bioac	cumulation	Bioconcent Exposure t	mephales promelas (fathead minnow) ration factor (BCF): 237 me: 24 d Based on data from similar materials
	on coefficient: n- ol/water	: log Pow: 4.	91 - 6.78 (40 °C)
Silici	c acid, aluminum so	dium salt:	
Partiti	on coefficient: n- ol/water		No data available



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Mobi	lity in soil		
Com	ponents:		
iprod	lione (ISO):		
	bution among environ- al compartments	: Remarks: Low	mobility in soil
kaoli	n:		
	bution among environ- al compartments	: Remarks: Low	mobility in soil
Othe	r adverse effects		
Prod	uct:		
Addit matic	ional ecological infor- n	unprofessional	ntal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.

Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal 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.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Iprodione)
Class	:	9
Subsidiary risk	:	ENVIRONM.
Packing group	:	III
Labels	:	9 (ENVIRONM.)
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Iprodione)
Class	:	9



Versior 1.0	n	Revision Date: 29.11.2023)S Number: 000150	Date of last issue: - Date of first issue: 29.11.2023
La Pa	abels	g group g instruction (cargo)	: :	III Miscellaneous 956	
Pa ge	ackin er airc	g instruction (passen-	:	956 yes	
UI Pr CI Pa	N nur roper lass	Code nber shipping name g group	:	UN 3077 ENVIRONMENTA N.O.S. (Iprodione) 9 III 9	ALLY HAZARDOUS SUBSTANCE, SOLID,
Er Ma	mS C	pollutant		F-A, S-F yes Marine Pollutants ing a net quantity for liquids or havi of 5 L or less for I	in single or combination packaging contain- per single or inner packaging of 5 L or less ng a net mass per single or inner packaging iquids may be transported as non-dangerous d in section 2.10.2.7 of IMDG code and IATA A197.

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

Not applicable for product as supplied.

National Regulations

NZS 5433 UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Iprodione)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR000621 ACVM Number: P2561



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The c	omponents of this pro	oduo	ct are reported in t	the following inventories:
TCSI		:	On the inventory,	or in compliance with the inventory
TSCA	λ.	:	Product contains	substance(s) not listed on TSCA inventory.
AIIC		:	Not in compliance	e with the inventory
DSL		:	This product cont on the Canadian	ains the following components that are not DSL nor NDSL.
			\ <i>'</i>	DPHENYL)-N-ISOPROPYL-2,4- .IDINE-1-CARBOXAMIDE
ENCS	3	:	Not in compliance	e with the inventory
ISHL		:	Not in compliance	e with the inventory
KECI		:	On the inventory,	or in compliance with the inventory
PICC	S	:	Not in compliance	e with the inventory
IECS	C	:	On the inventory,	or in compliance with the inventory
NZIoC	2	:	Not in compliance	e with the inventory
TECI		:	Not in compliance	e with the inventory

Section 16: Other information

NZ OEL / WES-TWA

Revision Date	:	29.11.2023
Date format	:	dd.mm.yyyy
Full text of other abbreviation ACGIH NZ OEL	ons : :	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants
ACGIH / TWA	:	8-hour, time-weighted average

: Workplace Exposure Standard - 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 Or-



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ganisation 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

Disclaimer

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