

Version 1.0	Revision Date: 31.07.2024		S Number: 29163-00001	Date of last issue: - Date of first issue: 31.07.2024
	1: IDENTIFICATION			
Produ	ict name	:	RACUMIN® RAI	AND MOUSE PASTE
Produ	ict code	:	Article/SKU: 7930 102000007452	05508 UVP: 05141435 Specification:
Manu	lfacturer or supplier's d	letai	ls	
Comp	bany	:	2022 Environmen ABN 49 656 513	tal Science AU Pty Ltd 923
Addre	255	:	Suite 2.06, Level Hawthorn East, A	2, 737 Burwood Road Australia 3123
Telep	hone	:	(03) 7019 3839	
Emer	gency telephone number	:	+61 2 9037 2994	
Reco	mmended use of the ch	nem	ical and restrictio	ns on use
Recor	mmended use	:	Rodenticides Plant protection a	agent
Restri	ictions on use	:	Not applicable	

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		Cotogony 4
Acute toxicity (Oral)	•	Category 4
Reproductive toxicity	:	Category 1B
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H360D May damage the unborn child.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read



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### and understood.

P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### Storage:

P405 Store locked up.

#### Disposal:

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

### Other hazards which do not result in classification

Because of antivitamin K properties of the active ingredient, absorption can inhibit blood coagulation and cause haemorrhagic syndrome.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Chemical nature : Bait (ready for use) (RB)

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Oat, flour	134134-86-4	>= 60 -<= 100
Sucrose	57-50-1	< 10
Coumatetralyl	5836-29-3	>= 0.003 -< 0.1

#### **SECTION 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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In cas	se of eye contact	:		water as a precaution. ntion if irritation develops and persists.
lf swa	allowed	:	Get medical atte Rinse mouth tho	NOT induce vomiting. ntion. roughly with water. ing by mouth to an unconscious person.
	important symptoms iffects, both acute and ed	:	occur: Internal and exter shock possible Symptoms and h of significant am Harmful if swallo May damage the Because of antiv	nazards refer to effects observed after intake ounts of the active ingredient(s). wed. e unborn child. itamin K properties of the active ingredient, nhibit blood coagulation and cause haemor-
Prote	ction of first-aiders	:	and use the reco	lers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).
Notes	to physician	:	the usual measu fusions. Necessity and ef In case of ingest cases of significa	he K1. Cases of severe poisoning may require res like application of blood products or trans- ficacy have to be assessed by INR. ion gastric lavage should be considered in ant ingestions only within the first 2 hours. plication of activated charcoal and sodium vs advisable.
SECTION	5. FIREFIGHTING MEA	ASU	RES	
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	

Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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				to cool unopened containers. ged containers from fire area if it is safe to de
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
SECTION	6. ACCIDENTAL RELE	ASE	MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
Enviro	onmental precautions	:	Retain and dispo	eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	For large spills, p ment to keep ma be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
SECTION	7. HANDLING AND ST	OR	AGE	
Tech	nical measures	:		measures under EXPOSURE SONAL PROTECTION section.
Local	/Total ventilation	:	If sufficient ventila ventilation.	ation is unavailable, use with local exhaust
Advic	e on safe handling	:	Handle in accord	apours. h eyes. ighly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as-
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			ink or smoke when using this product. prevent spills, waste and minimize release to the
Hygiene measures		flushing syste place. When using c	o chemical is likely during typical use, provide eye ems and safety showers close to the working to not eat, drink or smoke. inated clothing before re-use.
Conditions for safe storage		Store locked Keep tightly c	•
Materials to avoid		: Do not store v Strong oxidizi	with the following product types: ing agents

### 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		
Oat, flour	134134-86-4	TWA (Dust)	4 mg/m3	AU OEL		
		TWA (inhal-	0.5 mg/m3	ACGIH		
		able dust)				
Sucrose	57-50-1	TWA	10 mg/m3	AU OEL		
		TWA	10 mg/m3	ACGIH		

### Components with workplace control parameters

Engineering measures	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.			
Personal protective equipment				

#### Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type	: Particu	lates type
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Hand protection		
Material	:	Nitrile rubber
Break through time	:	> 480 min
Glove thickness	:	> 0.4 mm
Protective index	:	Class 6

Remarks

: Please observe the instructions regarding permeability and



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			gloves. Also take tions under which cuts, abrasion, an Choose gloves to on the concentrat stance and specif we recommend c aforementioned p	e which are provided by the supplier of the into consideration the specific local condi- the product is used, such as the danger of d the contact time. protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. For special applications, larifying the resistance to chemicals of the rotective gloves with the glove manufactur- before breaks and at the end of workday.
Eye p	protection	:	Wear the following Safety glasses	g personal protective equipment:
Skin a	and body protection	:	resistance data an potential. Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	blue
Odour	:	characteristic, very faint
Odour Threshold	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Melting point/freezing point	:	> 200 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Self-ignition	:	ca. 207.00 °C Method: Tested according to Directive 92/69/EEC.

### SAFETY DATA SHEET



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		explosion limit / Upper bility limit	:	Not applicable	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Density	/	:	ca. 1.19 g/cm³ (2	20.00 °C)
	Solubili Wat	ity(ies) ter solubility	:	insoluble	
	Partitio octanol	n coefficient: n- I/water	:	Not applicable	
	Auto-ig	nition temperature	:	425 °C	
	Decom	position temperature	:	110 °C	
	Viscos Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Impact	sensitivity	:	Not impact sensi	tive.
	Molecu	lar weight	:	No data available	
	Particle Particle	e characteristics e size	:	No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents



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Hazar produ	dous decomposition	: No hazaro	lous decomposition products are known.
CTION	11. TOXICOLOGICAL	NFORMATION	
Expos	sure routes	: Skin conta Ingestion Eye contac	
	e toxicity ful if swallowed.		
Produ	uct:		
Acute	oral toxicity	: LD50 (Rat,	female): 1,000 mg/kg
Acute	e dermal toxicity	: LD50 (Rat)	: > 4,000 mg/kg
<u>Comp</u>	oonents:		
Sucro	ose:		
Acute	oral toxicity	: LD50 (Rat)	: 29,700 mg/kg
Cour	natetralyl:		
Acute	oral toxicity		female): 15 mg/kg ECD Test Guideline 401
Acute	inhalation toxicity	Exposure t Test atmos	tity estimate: 0.05001 mg/l ime: 4 h sphere: dust/mist kpert judgement
Acute	e dermal toxicity		female): 258 mg/kg ECD Test Guideline 402
Skin	corrosion/irritation		
Not cl	assified based on ava	le information.	
<u>Produ</u>	uct:		
Speci		: Rabbit	t Cuideline 101
Metho Resul		: OECD Tes : No skin irrit	t Guideline 404 tation
<u>Com</u> p	oonents:		
Oat, f	lour:		
Speci			ed human epidermis (RhE)
Rema	Irks	: Based on o	lata from similar materials
Resul	t	: No skin irri	tation



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Coun	natetralyl:			
Speci	-	:	Rabbit	
Metho		:	OECD Test Gui	deline 404
Resu	t	:	No skin irritatior	1
Seric	ous eye damage/eye	irritat	ion	
Not c	lassified based on ava	ailable	information.	
Prod	uct:			
Speci		:	Rabbit	
Resu		:	No eye irritation OECD Test Gui	
Metho	Da	-	OECD Test Gui	deline 405
<u>Com</u>	oonents:			
Oat, f	flour:			
Speci		:	Tissue Culture	
Rema	arks	:	Based on data	from similar materials
Resu	lt	:	No eye irritation	
Coun	natetralyl:			
Speci	es	:	Rabbit	
Resu		:	No eye irritation	
Metho	bd	:	OECD Test Gui	deline 405
Resp	iratory or skin sensi	tisatio	n	
•	sensitisation			
Not c	lassified based on ava	ailable	information.	
-	iratory sensitisation			
Not c	lassified based on ava	ailable	information.	
Prod	uct:			
Test <sup>-</sup>		:		de assay (LLNA)
	sure routes	:	Skin contact	
Speci Metho		:	Mouse OECD Test Gui	dolino 120
metric		:	negative	denne 429
Resu				
	<u>oonents:</u>			
<u>Com</u>				
<u>Com</u> j Oat, t	flour:		Local lymph por	de assav (LENA)
<u>Com</u> Oat, f	f <b>lour:</b> Type	:		de assay (LLNA)
Com Oat, f Test Expos Speci	flour: Type sure routes ies	:	Local lymph nod Skin contact Mouse	de assay (LLNA)
<u>Com</u> Oat, f Test Expos	flour: Type sure routes ies t	:	Skin contact Mouse negative	de assay (LLNA) from similar materials



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Courr	natetralyl:		
Test 7	-	: Buehler Test	
-	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Gu	ideline 406
Resul		: negative	
Chroi	nic toxicity		
	cell mutagenicity	ilable information	
	onents:		
Oat, f	lour:		
	toxicity in vitro	: Test Type: Bad	terial reverse mutation assay (AMES)
	,	Method: OECE	Test Guideline 471
		Result: negativ	e ed on data from similar materials
		Remains. Dase	eu on uata nom sinnia materiais
			itro micronucleus test
		Result: negativ	) Test Guideline 487 e
			ed on data from similar materials
Sucro	ose:		
Genot	toxicity in vitro	: Test Type: In v Result: negativ	itro mammalian cell gene mutation test
		ee an .ee gant	-
	natetralyl:	. Test Turse De	
Geno	toxicity in vitro		cterial reverse mutation assay (AMES) Test Guideline 471
		Result: negativ	
		Test Type: In v	itro mammalian cell gene mutation test
			Test Guideline 476
		Result: negativ	9
Genot	toxicity in vivo		mmalian erythrocyte micronucleus test (in v
		cytogenetic as	
		Species: Mous Application Ro	
		Method: OECE	Test Guideline 474
		Result: negativ	9
0			
Carci	nogenicity	ailable information.	

### Reproductive toxicity

May damage the unborn child.



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<u>Comp</u>	oonents:			
Coum	natetralyl:			
Effect: ment	s on foetal develop-	Speci Applio Metho	ies: Rabbit cation Rou	ryo-foetal development te: Ingestion Test Guideline 414
Repro sessn	ductive toxicity - As- nent		evidence al experime	of adverse effects on development, based o ents.
стот	- single exposure			
Not cl	assified based on avail	lable informa	ation.	
	- repeated exposure assified based on avai		ation.	
<u>Comp</u>	oonents:			
Expos Target	natetralyl: sure routes t Organs ssment		l 'n to produ	ce significant health effects in animals at co ) mg/kg bw or less.
Repe	ated dose toxicity			
-	oonents:			
-	natetralyl:			
Speci LOAE Applic	es EL cation Route sure time	: Inges : 112 [	Days	deline 408
-	ation toxicity lassified based on avai	lable informa	ation.	
Expe	rience with human e	kposure		
<u>Comp</u>	oonents:			
Coum	natetralyl:			
	ral Information			cific developmental abnormalities d on data from similar materials



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SECTION	12. ECOLOGICAL INFO	ORM	IATION		
Ecoto	oxicity				
<u>Com</u>	ponents:				
Coun	natetralyl:				
Toxic	ity to fish	:	: LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l Exposure time: 96 h		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): >14 mg/l Exposure time: 48 h		
Toxic plants	ity to algae/aquatic	:	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 18 mg/l Exposure time: 72 h		
			NOEC (Raphidoc mg/l Exposure time: 7	elis subcapitata (freshwater green alga)): 5.6 2 h	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.005 mg/l Exposure time: 21 d		
	ity to daphnia and other ic invertebrates (Chron-icity)	:	NOEC (Daphnia magna (Water flea)): 0.1 mg/l Exposure time: 21 d		

### Persistence and degradability

Components:

Coumatetralyl:

:	Result: Not readily biodegradable.
	Biodegradation: 0 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301D
	:

#### Bioaccumulative potential

#### Components:

Sucrose:

Partition coefficient:	n-	:	Pow: < 1
octanol/water			

### Coumatetralyl:

Bioaccumulation	: Species: Lepomis macrochirus (Bluegill sunfish)
	Bioconcentration factor (BCF): 11.4
	Method: OECD Test Guideline 305



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	ion coefficient: n- nol/water	:	log Pow: 3.4	
	<b>lity in soil</b> ata available			
••	<b>r adverse effects</b> ata available			
SECTION	13. DISPOSAL CONS	SIDER	ATIONS	
Dispo	osal methods			
Wast	e from residues	:	directions. If it is please follow co guidelines.	all of the product in accordance with label necessary to dispose of unused product, ntainer label instructions and applicable local of waste into sewer.
Conta	aminated packaging	:		n product label and/or leaflet. s retain residue and can be dangerous. mpty containers.

### SECTION 14. TRANSPORT INFORMATION

### International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.		Not applicable
Proper shipping name	:	Not applicable
Class		Not applicable
Subsidiary risk	:	Not applicable
Packing group		Not applicable
Labels	÷	Not applicable
Packing instruction (cargo		Not applicable
aircraft)	-	
Packing instruction (passen-	:	Not applicable
ger aircraft)	-	
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable



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Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

#### **National Regulations**

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

#### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

Safety, health and environn ture	nent	al regulations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislations/legislatio	on specific for the substance or mix-
Therapeutic Goods (Poisons Standard) Instrument	:		e the original publication to check for onditions or threshold limits that might
Prohibition/Licensing Require	men	ts :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
Product Type	:	Rodenticides	
Active substance	:	0.0375 % Coumatetralyl	

#### SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information Revision Date	:	31.07.2024
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



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### Full text of other abbreviations

ACGIH AU OEL	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA AU OEL / TWA	8-hour, time-weighted average 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 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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