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SECTION	1: IDENTIFICATION			
Produ	ict name	:	K-OBIOL EC CO	MBI SYNERGISED GRAIN PROTECTANT
Produ	ict code	:	Article/SKU: 849 Specification: 102	19810; 84998028; 86806681 UVP: 81706182 2000028651
Manu	lfacturer or supplier's d	leta	ils	
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
Telepl	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

Recommended use	:	Insecticide
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Sub-category 1B
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
GHS label elements Hazard pictograms	:	



Signal word

: Warning

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Hazard	statements	H319 Causes H335 May cau	if swallowed. use an allergic skin reaction. serious eye irritation. use respiratory irritation. ted of causing cancer.
Suppler ments	mental Hazard State-	: AUH066 Repe ing.	eated exposure may cause skin dryness or crack-
Precau	tionary statements	P202 Do not h and understoo P261 Avoid br P264 Wash sl P270 Do not e P271 Use only P272 Contami the workplace.	reathing mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. inated work clothing should not be allowed out of otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P302 + P352 P304 + P340 and keep com doctor if you fe P305 + P351 for several min easy to do. Co P308 + P313 attention. P321 Specific on this label). P333 + P313 vice/ attention P337 + P313 tention. Storage: P405 Store loc Disposal:	+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ treatment (see supplemental first aid instructions If skin irritation or rash occurs: Get medical ad- If eye irritation persists: Get medical advice/ at-



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Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Emulsifiable concentrate (EC)

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO)	51-03-6	>= 30 -< 60
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 10 -< 20
Benzyl alcohol	100-51-6	>= 10 -< 30
Propylene carbonate	108-32-7	>= 10 -< 30
Deltamethrin	52918-63-5	< 10
Benzenesulfonic acid, mono-C11-13-branched alkyl derivatives, calcium salts	68953-96-8	>= 3 -< 10
2-Ethylhexan-1-ol	104-76-7	< 10

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.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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Most important symptoms and effects, both acute and delayed		branes. Skin and eye p Usually transie Cough sneezing This product c Pyrethroid pois or organophos Harmful if swa	auses irritation of eyes, skin and mucous mem- paraesthesia which may be severe ent with resolution within 24 hours ontains a pyrethroid. soning should not be confused with carbamate phate poisoning. llowed. allergic skin reaction.
Protec	ction of first-aiders	Causes seriou May cause res Suspected of Repeated exp : First Aid respondent and use the response	s eye irritation. spiratory irritation. causing cancer. osure may cause skin dryness or cracking. onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	s to physician	There is no sp Initial treatmer Oxygen or arti Monitor: respir Recovery is sp In case of inge cases of signif However, the sulphate is alw	ecific antidote available. at: symptomatic. ficial respiration if needed. atory and cardiac functions. bontaneous and without sequelae. estion gastric lavage should be considered in icant ingestions only within the first 2 hours. application of activated charcoal and sodium vays advisable. wulsions, a benzodiazepine (e.g. diazepam)
		should be give If not effective,	n according to standard regimens. phenobarbital may be used. on: derivatives of adrenaline.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides

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Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	
	al protective equipment	:		e, wear self-contained breathing apparatus.
Hazcł	hem Code	:	•3Z	
tive er gency Enviro	onal precautions, protec- quipment and emer- / procedures onmental precautions	:	Follow safe handl tective equipment Avoid release to t Prevent further le Prevent spreading barriers). Retain and dispos Local authorities cannot be contain	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ned.
	ods and materials for inment and cleaning up	:	For large spills, p ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the o mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- rerial 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 STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.

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Ad	vice on safe handling	Do not swallow Do not get in ey Wash skin thord Handle in acco practice, based sessment Keep container Already sensitis to asthma, aller should consult tory irritants or Do not eat, drin	mist or vapours. res. bughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. sed individuals, and those susceptible gies, chronic or recurrent respiratory disease, their physician regarding working with respira-
Hy	giene measures	flushing system place. When using do Contaminated w workplace.	themical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. work clothing should not be allowed out of the ated clothing before re-use.
Co	nditions for safe storage	Store locked up Keep tightly clo Keep in a cool,	
Ma	aterials to avoid	: Do not store wit Strong oxidizing	th the following product types: g 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
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA (Mist)	5 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
2-Ethylhexan-1-ol	104-76-7	TWA	5 ppm	ACGIH

Engineering measures

: Minimize workplace exposure concentrations.

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			lf sufficient ventila ventilation.	tion is unavailable, use with local exhaust		
Perso	onal protective equipn	nent	:			
Respi	Respiratory protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Fil	lter type	:	Combined particu	lates and organic vapour type		
Hand	protection					
Ma	aterial	:	Chemical-resistan	t gloves		
Re	emarks	:	on the concentrat stance and specif determined for the applications, we r chemicals of the a	protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. Breakthrough time is not e product. Change gloves often! For special ecommend clarifying the resistance to aforementioned protective gloves with the er. Wash hands before breaks and at the		
Eye p	protection	:	Wear the following Safety goggles	g personal protective equipment:		
Skin i	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	: liquid
Colour	: light yellow, brown, clear
Odour	: slight, acrid
Odour Threshold	: No data available
рН	: 4 - 7 (23 °C) Concentration: 1 % deionised water

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	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	103 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Density	,	:	ca. 1.07 g/cm³ (2	0 °C)
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ity cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

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Re	eactivi	ty	:	Not classified as	a reactivity hazard.
CI	hemica	al stability	:	Stable under norr	nal conditions.
	Possibility of hazardous reac- tions		:	Can react with st	rong oxidizing agents.
Co	onditio	ons to avoid	:	None known.	
In	compa	atible materials	:	Oxidizing agents	
	azardo roducts	ous decomposition	:	No hazardous de	composition products are known.
SECTI	ON 1 1	I. TOXICOLOGICAL I	NFC	RMATION	
E	xposu	re routes	:	Inhalation Skin contact Ingestion Eye contact	
		oxicity if swallowed.			
<u>P</u> 1	roduc	<u>t:</u>			
Ad	cute o	ral toxicity	:	LD50 (Rat): 710 n Remarks: Based o	ng/kg on data from similar materials
Ad	cute ir	halation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculation	h vapour
Ad	cute d	ermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based o	2,000 mg/kg on data from similar materials
<u>C</u>	ompo	nents:			
2-	-(2-But	toxyethoxy)ethyl 6-p	ropy	piperonyl ether	(Piperonyl butoxide/PBO):
Ad	cute o	ral toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te	
Ad	cute ir	halation toxicity	:	LC50 (Rat): > 5.2 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Ad	cute d	ermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te	

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: LD50 (Rat): > 5,000 mg/kg
 LC50 (Rat): > 5.28 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inh tion toxicity
: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute der toxicity
: LD50 (Rat): 1,620 mg/kg
: LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
 LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute der toxicity
: LD50 (Rat, female): 87 mg/kg Method: OECD Test Guideline 401
: LC50 (Rat): 0.6 mg/l Exposure time: 6 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
 LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute der toxicity

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Assessment: The substance or mixture has no acute oral tox-

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			icity	
			Remarks: Base	d on data from similar materials
Acute	e dermal toxicity	:	Method: OECD	,000 - 2,000 mg/kg Test Guideline 402 d on data from similar materials
2-Eth	ylhexan-1-ol:			
	e oral toxicity	:	LD50 (Rat): 2,0	147 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 0 Exposure time: Test atmosphere	4 h
Acute	e dermal toxicity	:		> 3,000 mg/kg Test Guideline 402 ne substance or mixture has no acute derm
Skin	corrosion/irritation			
-	lassified based on ava	ilable	information.	
Prod	uct:			
<u>Prod</u> Speci		:	Rabbit	
Speci Resu	ies It	:	No skin irritation	
Speci	ies It	:	No skin irritation	ו from similar materials
Speci Resul Rema	ies It	:	No skin irritation	
Speci Resul Rema <u>Com</u>	ies It arks ponents:	: : : : : :	No skin irritation Based on data	
Speci Resul Rema <u>Com</u> 2-(2-E Speci	ies It arks <u>ponents:</u> Butoxyethoxy)ethyl 6 ies)-prop	No skin irritation Based on data ylpiperonyl eth Rabbit	from similar materials er (Piperonyl butoxide/PBO):
Speci Resul Rema <u>Com</u>	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od	5-prop	No skin irritation Based on data ylpiperonyl eth	from similar materials er (Piperonyl butoxide/PBO): ideline 404
Speci Resul Rema Com 2-(2-E Speci Metho Resul	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od	5-prop	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation	from similar materials er (Piperonyl butoxide/PBO): ideline 404
Speci Resul Rema Com 2-(2-E Speci Metho Resul	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo	from similar materials er (Piperonyl butoxide/PBO): ideline 404 າ
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asset	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo	from similar materials er (Piperonyl butoxide/PBO): ideline 404 າ
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ent naphtha (petroleu	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo	from similar materials er (Piperonyl butoxide/PBO): ideline 404 າ sure may cause skin dryness or cracking.
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve Asses Benz Speci	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ssment ssment yl alcohol: ies	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo	from similar materials er (Piperonyl butoxide/PBO): ideline 404 າ sure may cause skin dryness or cracking.
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve Asses Benz Speci Metho	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ssment cyl alcohol: ies od	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo eavy arom.: Repeated expo Rabbit OECD Test Gu	from similar materials er (Piperonyl butoxide/PBO): ideline 404 n sure may cause skin dryness or cracking. sure may cause skin dryness or cracking.
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve Asses Benz Speci	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ssment cyl alcohol: ies od	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo eavy arom.: Repeated expo Rabbit	from similar materials er (Piperonyl butoxide/PBO): ideline 404 n sure may cause skin dryness or cracking. sure may cause skin dryness or cracking.
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve Asses Benz Speci Metho Resul	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ssment cyl alcohol: ies od	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo eavy arom.: Repeated expo Rabbit OECD Test Gu	from similar materials er (Piperonyl butoxide/PBO): ideline 404 n sure may cause skin dryness or cracking. sure may cause skin dryness or cracking.
Speci Resul Rema Comj 2-(2-E Speci Metho Resul Asses Solve Asses Benz Speci Metho Resul	ies It arks ponents: Butoxyethoxy)ethyl 6 ies od It ssment ent naphtha (petroleu ssment cyl alcohol: ies od It ylene carbonate:	:	No skin irritation Based on data ylpiperonyl eth Rabbit OECD Test Gu No skin irritation Repeated expo eavy arom.: Repeated expo Rabbit OECD Test Gu	from similar materials er (Piperonyl butoxide/PBO): ideline 404 n sure may cause skin dryness or cracking. sure may cause skin dryness or cracking.



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Dalta	methrin:			
			Rabbit	
Spec Metho		•	OECD Test Guid	deline 404
Resu		:	No skin irritation	
Benz	enesulfonic acid, m	ono-C [,]	11-13-branched a	alkyl derivatives, calcium salts:
Spec	ies	:	Rabbit	-
Resu	lt	:	Skin irritation	
2-Eth	ylhexan-1-ol:			
Spec	ies	:	Rabbit	
Metho		:	OECD Test Guid	deline 404
Resu	It	:	Skin irritation	
	ous eye damage/eye		ion	
Caus	es serious eye irritatio	on.		
Prod	uct:			
Spec	ies	:	Rabbit	
Resu		:	Irritating to eyes	
Rema	arks	:	Based on data fr	rom similar materials
<u>Com</u>	ponents:			
-		6-prop		r (Piperonyl butoxide/PBO):
Spec		:	Rabbit	reversing within 01 days
Resu Metho		:	OECD Test Guid	, reversing within 21 days
Meth	ou	•	OLOD Test Guit	
	ent naphtha (petrole	um), h	-	
Spec Resu		:	Rabbit No eye irritation	
			,	
Benz	yl alcohol:			
Spec		:	Rabbit	
Resu		:		, reversing within 21 days
Metho	bd	:	OECD Test Guid	deline 405
Prop	ylene carbonate:			
Spec		:	Rabbit	
Resu		:		, reversing within 21 days
Metho	Da	:	OECD Test Guid	aeiine 405

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Deltamethrin:

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Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Benzenesulfonic acid, mono-C11-13-branched alkyl derivatives, calcium salts:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

2-Ethylhexan-1-ol:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Species	:	Guinea pig
Result	:	Probability or evidence of low to moderate skin sensitisation
		rate in humans
Remarks	:	Based on data from similar materials

Components:

2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO):

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Solvent naphtha (petroleum), heavy arom.:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Benzyl alcohol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig

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Metho Resul		: OECD Test Gu : negative	ideline 406
Delta	methrin:		
Test 7	Туре	: Buehler Test	
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho		: OECD Test Gu	ideline 406
Resul	t	: negative	
Benz	enesulfonic acid, m	ono-C11-13-branched	alkyl derivatives, calcium salts:
Test 7	Туре	: Maximisation T	est
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho		: OECD Test Gu	ideline 406
Resul		: negative	frana aimilar matariala
Rema	IIKS	. Based on data	from similar materials
Chro	nic toxicity		
Corre			
	cell mutagenicity		
Not cl	lassified based on ava	ailable information.	
<u>Comp</u>	oonents:		
2-(2-E	Butoxyethoxy)ethyl	6-propylpiperonyl eth	er (Piperonyl butoxide/PBO):
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
Solve	ent naphtha (petrole	um), heavy arom.:	
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
Geno	toxicity in vivo		agenicity (in vivo mammalian bone-marrow t, chromosomal analysis)
		Application Rou Result: negative	ite: Intraperitoneal injection
Benz			
Geno	yl alcohol:		
Cono	yl alcohol: toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
		Result: negative	nmalian erythrocyte micronucleus test (in v ay)

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Prop	ylene carbonate:		
Geno	otoxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) ive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ive
Gend	otoxicity in vivo	cytogenetic a Species: Mor	use coute: Intraperitoneal injection
Delta	amethrin:		
Geno	otoxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) ive
			vitro mammalian cell gene mutation test CD Test Guideline 473 ive
		thesis in mar	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) CD Test Guideline 482 ive
Benz	zenesulfonic acid, mo	no-C11-13-branche	d alkyl derivatives, calcium salts:
	ptoxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES)
		Result: negat	vitro mammalian cell gene mutation test ive sed on data from similar materials
Geno	otoxicity in vivo	cytogenetic a Species: Mon Application R Result: negat	use coute: Ingestion
2-Eth	ylhexan-1-ol:		
	otoxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 ive

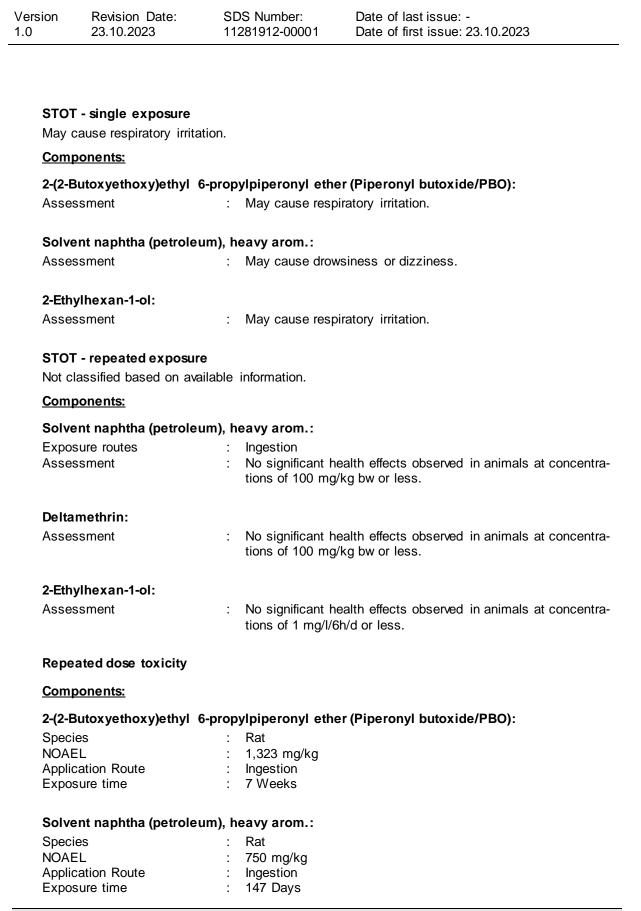
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Genoto	oxicity in vivo	: Test Type: Ma	mmalian erythrocyte micronucleus test (in vivo
Centro		cytogenetic as Species: Mous	say) se oute: Intraperitoneal injection
	ogenicity cted of causing cance	sr	
	onents:		
-		-propylnineropyl et	her (Piperonyl butoxide/PBO):
Specie		: Rat	
	ation Route	: Ingestion	
	ure time	: 107 weeks	
Method	ł	: OECD Test G	uideline 451
Result		: negative	
Solver	nt naphtha (petroleu	m), heavy arom.:	
Species		: Rat	
	ation Route	: inhalation (vap	our)
	ure time	: 105 weeks	
Result Remark	ks	: positive : Based on data	from similar materials
Carcino ment	ogenicity - Assess-	: Limited eviden	ce of carcinogenicity in animal studies
Benzy	l alcohol:		
Specie		: Mouse	
Applica	ation Route	: Ingestion	
•	ure time	: 103 weeks	
Method Result	1	: OECD Test G : negative	uideline 451
Propyl	ene carbonate:		
Specie		: Mouse	
	ation Route	: Skin contact	
Result	ure time	: 104 weeks : negative	
Deltan	nethrin:		
Specie		: Rat	
	ation Route	: Ingestion	
Method		: OECD Test G	uideline 453
Result		: negative	

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Spe App	t hylhexan-1-ol: ecies blication Route bosure time sult	: Rat : Ingestion : 2 Years : negative	
-	productive toxicity classified based on avai	lable information.	
<u>Cor</u>	nponents:		
•	-Butoxyethoxy)ethyl 6 acts on fertility	: Test Type: Tw Species: Rat	her (Piperonyl butoxide/PBO): vo-generation reproduction toxicity study pute: Ingestion ve
Effe mer	ects on foetal develop- nt	Species: Rat	nbryo-foetal development oute: Ingestion ve
	vent naphtha (petroleu cts on fertility	: Test Type: Fe Species: Rat	oute: Ingestion
Effe mer	ects on foetal develop- nt	: Test Type: Er Species: Rat Application Ro	nbryo-foetal development oute: Ingestion D Test Guideline 414
Ber	nzyl alcohol:		
	cts on fertility	Species: Rat Application Re Result: negati	ertility/early embryonic development oute: Ingestion ve sed on data from similar materials
Effe mer	ects on foetal develop- nt	Species: Mou	oute: Ingestion
Pro	pylene carbonate:		
	cts on fertility	: Test Type: Tv	o-generation reproduction toxicity study

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			Species: Mouse Application Route	: Ingestion
			Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
Delta	methrin:			
Effect	ts on fertility	:	Test Type: Two-ge Species: Rat Application Route Method: OECD Te Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Rabbit Application Route Method: OECD Te Result: negative	
Benz	enesulfonic acid, mo	no-C1	1-13-branched al	kyl derivatives, calcium salts:
Effect	s on fertility	:	Species: Rat Application Route Result: negative	generation reproduction toxicity study : Ingestion on data from similar materials
Effect ment	s on foetal develop-	:	Species: Rat Application Route Result: negative	o-foetal development : Ingestion on data from similar materials
2-Eth	ylhexan-1-ol:			
Effect	s on fertility	:	Test Type: Two-ge Species: Rat Application Route Method: OECD Te Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative	







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Benzyl alcohol:

Species NOAEL Application Route	: '	Rat 1.072 mg/l nhalation (dust/mist/fume)
Exposure time Method		28 Days OECD Test Guideline 412
Propylene carbonate:		
Species	:	Rat
NOAEL	: ;	> 5,000 mg/kg
Application Route	: 1	ngestion
Exposure time	: 9	90 Days
Deltamethrin:		
Species	: 1	Dog
NOAEL	: '	1 mg/kg
LOAEL	: '	10 mg/kg

NOALL	. i iliy/ky
LOAEL	: 10 mg/kg
Application Route	: Ingestion
Exposure time	: 52 Weeks
Method	: OECD Test Guideline 452

Benzenesulfonic acid, mono-C11-13-branched alkyl derivatives, calcium salts:

Species :	:	Rat
LOAEL :		> 100 mg/kg
Application Route :		Ingestion
Exposure time :		9 Months
Remarks :		Based on data from similar materials

2-Ethylhexan-1-ol:

Species	:	Rat
NOAEL	:	250 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Method	:	OECD Test Guideline 408
Species	:	Rat
Species NOAEL	:	Rat 0.6384 mg/l
•	:	
NOAEL	::	0.6384 mg/l
NOAEL Application Route	:	0.6384 mg/l inhalation (vapour)

Aspiration toxicity

Not classified based on available information.



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Product:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Components:

Solvent naphtha (petroleum), heavy arom.:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO):

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): 3.94 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.51 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 3.89 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 0.824 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.18 mg/l Exposure time: 35 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.03 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Solvent naphtha (petroleum), heavy arom.:

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	Toxicity	r to fish	:	Exposure time: 96	Ater Accommodated Fraction
		to daphnia and other invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
	Toxicity plants	r to algae/aquatic	:	mg/l Exposure time: 72	Vater Accommodated Fraction
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	magna (Water flea)): 0.48 mg/l d /ater Accommodated Fraction
	Benzvl	alcohol:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 460 mg/l h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Propyle	ene carbonate:			
	Toxicity		:	Exposure time: 96	arpio (Carp)): > 1,000 mg/l h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 1,000 mg/l h

Versio 1.0	on	Revision Date: 23.10.2023		0S Number: 281912-00001	Date of last issue: - Date of first issue: 23.10.2023
	Toxicity plants	to algae/aquatic	:	ErC50 (Selenastri Exposure time: 72 Method: OECD T	
				NOEC (Selenastri Exposure time: 72 Method: OECD T	
T	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 10 Method: DIN 38 4	
г	Deltam	ethrin [.]			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.15 μg/l δ h
		to daphnia and other invertebrates	:	EC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0.0003 μg/l δ h
	Toxicity plants	to algae/aquatic	:	ErC50 (Chlorella Exposure time: 96	wlgaris (Fresh water algae)): > 0.47 mg/l 5 h
	Toxicity city)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 20	es promelas (fathead minnow)): 0.017 µg/l 60 d
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia) Exposure time: 2	magna (Water flea)): 0.0041 μg/l 1 d
٦	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 0.3 mg/l h
F	Benzer	esulfonic acid, mono	o-C1	1-13-branched a	kyl derivatives, calcium salts:
	Toxicity			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 1 - 10 mg/l
		to daphnia and other invertebrates	:	Exposure time: 44 Method: OECD T	nagna (Water flea)): > 10 - 100 mg/l 3 h est Guideline 202 on data from similar materials
	Toxicity plants	to algae/aquatic	:	10 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): > 2 h on data from similar materials
				NOEC (Raphidoce	elis subcapitata (freshwater green alga)): > 1

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			mg/I Exposure time: 7 Remarks: Based	2 h on data from similar materials
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 7	ichus mykiss (rainbow trout)): > 0.1 - 1 mg/l 2 d on data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): > 1 mg/l 1 d on data from similar materials
Toxici	ty to microorganisms	:	Exposure time: 3 Method: OECD T	sludge): > 100 mg/l h est Guideline 209 on data from similar materials
2-Ethy	/lhexan-1-ol:			
Toxici	ty to fish	:	Exposure time: 9	s promelas (fathead minnow)): 28.2 mg/l 6 h est Guideline 203
	ty to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 39 mg/l 8 h 67/548/EEC, Annex V, C.2.
Toxici plants	ty to algae/aquatic	:	Exposure time: 7	smus subspicatus (green algae)): 16.6 mg/l 2 h 67/548/EEC, Annex V, C.3.
			Exposure time: 7	mus subspicatus (green algae)): 16.6 mg/l 2 h 67/548/EEC, Annex V, C.3.
Persis	stence and degradabil	ity		
	oonents:			
2-(2-B	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether	(Piperonyl butoxide/PBO):
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	0 %
Benzy	/l alcohol:			
-	gradability	:	Result: Readily bi Biodegradation: Exposure time: 1	92 - 96 %

/ersion 1.0	Revision Date: 23.10.2023	-	0S Number: 281912-00001	Date of last issue: - Date of first issue: 23.10.2023
Prop	ylene carbonate:			
-	egradability	:	Result: Readily Biodegradation: Exposure time: Method: Directiv	> 90 %
Delta	methrin:			
Biode	egradability	:	Biodegradation: Exposure time:	
Benz	enesulfonic acid, m	ono-C	11-13-branched	alkyl derivatives, calcium salts:
Biode	egradability	:	Method: OECD	lily biodegradable. Test Guideline 301E d on data from similar materials
2-Eth	ylhexan-1-ol:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time:	79 - 99.9 %
Bioa	ccumulative potentia	al		
<u>Com</u>	ponents:			
Partit	Butoxyethoxy)ethyl ion coefficient: n- nol/water	6-prop :	ylpiperonyl ethe log Pow: 5	er (Piperonyl butoxide/PBO):
Benz	yl alcohol:			
	ion coefficient: n- nol/water	:	log Pow: 1.05	
Prop	ylene carbonate:			
	ion coefficient: n- nol/water	:	log Pow: -0.48	
Delta	methrin:			
Bioac	ccumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): 1,400
	ion coefficient: n- nol/water	:	log Pow: 6.4	



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Bonz	onosulfonic acid m		11-12-branchod	alkyl derivatives, calcium salts:
		0110-0		•
	ion coefficient: n- ol/water	:	log Pow: 4.595 Method: Regula	ation (EC) No. 440/2008, Annex, A.8
2-Eth	ylhexan-1-ol:			
	ion coefficient: n- ol/water	:	log Pow: 2.9	
Mahi	lity in soil			

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Deltamethrin, 2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO))
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Deltamethrin, 2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO))
Class	:	9



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Packing Labels	g group	:	III Miscellaneous	
	g instruction (cargo)	:	964	
Packing ger airc	g instruction (passen- craft)	:	964	
IMDG-0	Code			
UN nun	nber	:	UN 3082	
Proper	shipping name	:	ENVIRONMENTA N.O.S.	LLY HAZARDOUS SUBSTANCE, LIQUID,
			(Deltamethrin, 2-(2) (Piperonyl butoxic	2-Butoxyethoxy)ethyl 6-propylpiperonyl ether le/PBO))
Class		:	9	
Packing	g group	:	III	
Labels		:	9	
EmS C	ode	:	F-A, S-F	

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

: yes

Not applicable for product as supplied.

National Regulations

Marine pollutant

ADG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin, 2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl ether (Piperonyl butoxide/PBO))
Class	:	9
Packing group	:	
Labels	:	9
Hazchem Code	:	•3Z
Environmentally hazardous	:	yes

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

Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons

Prohibition/Licensing Requirements

: There is no applicable prohibition,



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			authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
Produ	ct Type	: Insecticides, ac pods	caricides and products to control other arthro-
Active	substance	: 50 g/l Deltamethrin	
		400 g/l 2-(2-Butoxyetho butoxide/PBO)	oxy)ethyl 6-propylpiperonyl ether (Piperonyl

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information Revision Date	:	23.10.2023			
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/			
Date format	:	dd.mm.yyyy			
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			

AlIC - 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 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

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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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