

Vers 3.2	sion	Revision Date: 27.11.2023		S Number: 14444-00005		ue: 30.09.2023 ue: 21.07.2022
Sec	tion 1: l	dentification				
	Product	t name	:	Temephos Liquic	Formulation	
	Other m	neans of identification	:	Coopers Assassi	n Sheep Dip (47	7568)
	Manufa Compa	acturer or supplier's d ny	letai :	ls MSD		
	Address	5	:	33 Whakatiki Stre Upper Hutt - New		908
	Telepho	one	:	0800 800 543		
	Emerge	ency telephone number	• :	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800
	E-mail a	address	:	EHSDATASTEW	ARD@msd.con	ı
	Recom	mended use of the ch mended use tions on use	nem : :	ical and restrictic Veterinary produc Not applicable		

Section 2: Hazard identification

GHS Classification	_	Cotoron: 1
Acute toxicity (Oral)	•	Category 4
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 3
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (nasal cavity)



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	Aspirat	ion hazard		Category 1	
	Hazard	ous to the aquatic ment - acute hazard	:	Category 1	
		ous to the aquatic ment - chronic hazard	:	Category 1	
		bel elements pictograms word	:	Danger	
	Hazard	statements	:	H304 May be fat H311 Toxic in co H317 May cause H318 Causes se H336 May cause H341 Suspected H372 Causes da prolonged or rep H373 May cause longed or repeat	an allergic skin reaction. rious eye damage. drowsiness or dizziness. of causing genetic defects. mage to organs (Nervous system) through eated exposure. damage to organs (nasal cavity) through pro-
	Precau	tionary statements	:	P202 Do not har and understood. P260 Do not bre P264 Wash skin P270 Do not eat P271 Use only o P272 Contamina the workplace. P273 Avoid relea P280 Wear protect tion/ face protect Response:	
				CENTER/ doctor P302 + P352 + P Call a POISON (P304 + P340 + P	P312 IF ON SKIN: Wash with plenty of water. CENTER/ doctor if you feel unwell. P312 IF INHALED: Remove person to fresh air table for breathing. Call a POISON CENTER/



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		water for severa and easy to do. CENTER/ docto P308 + P313 IF attention. P331 Do NOT in	exposed or concerned: Get medical advice/ nduce vomiting. skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store lock	
		Disposal:	of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphtha-	64742-94-5	>= 30 -< 50
lene		
Temephos	3383-96-8	>= 30 -< 50
Calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10
Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether	37251-69-7	>= 2.5 -< 10
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	>= 2.5 -< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

Section 4: First-aid measures

General advice	n the case of accident or if you feel unwell, seek rice immediately. Vhen symptoms persist or in all cases of doubt so advice.	
If inhaled	f inhaled, remove to fresh air. f not breathing, give artificial respiration. f breathing is difficult, give oxygen. Set medical attention.	
In case of skin contact	n case of contact, immediately flush skin with ple Remove contaminated clothing and shoes. Get medical attention.	∩ty of water.



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In cas	se of eye contact	: In case of conta	n shoes before reuse. ct, immediately flush eyes with plenty of wate
			move contact lens, if worn.
lf swa	allowed	: If swallowed, DO If vomiting occu Call a physician Rinse mouth the	ention immediately. D NOT induce vomiting. rs have person lean forward. or poison control centre immediately. proughly with water. hing by mouth to an unconscious person.
	important symptoms ffects, both acute and ed	: Harmful if swall May be fatal if s Toxic in contact May cause an a Causes serious May cause drow Suspected of ca Causes damage exposure.	owed or if inhaled. wallowed and enters airways. with skin. Ilergic skin reaction.
Prote	ction of first-aiders	: First Aid respon and use the rec	ders should pay attention to self-protection, ommended personal protective equipment ial for exposure exists (see section 8).
Notes	s to physician		atically and supportively.
ection 5	: Fire-fighting measure	S	
Suital	ble extinguishing media	: Water spray Alcohol-resistan Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	: None known.	
fightir			nbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	: Carbon oxides Sulphur oxides Oxides of phosp Metal oxides Sulphur compo	
Speci ods	ific extinguishing meth-	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. v to cool unopened containers. aged containers from fire area if it is safe to c
	ial protective equipment efighters	: In the event of f	ire, wear self-contained breathing apparatus. otective equipment.

: 3Z



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Section 6: Accidental release measures

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage

Technical measures Local/Total ventilation	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust	
Advice on safe handling	ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling.	
	 Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to th environment. 	-
Hygiene measures	If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.	



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	itions for safe storage	The effective op engineering con appropriate dege industrial hygien use of administre : Keep in properly Store locked up Keep tightly clos Keep in a cool, v Store in accorda	a labelled containers. ed. well-ventilated place. ince with the particular national regulations. In the following product types:

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	WES-TWA (Mist)	5 mg/m3	NZ OEL
		WES-STEL (Mist)	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Temephos	3383-96-8	WES-TWA	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	1 mg/m3	ACGIH
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m3	NZ OEL
	Further inform	ation: Skin sensi	tiser	
		TWA (Inhal- able fraction	2 mg/m3	ACGIH
		and vapor)		

Components with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Temephos	3383-96-8	Cholines- terase activ- ity	Blood		60 % of baseline	NZ BEI
		Cholines- terase activ- ity	Blood		80 % of baseline	NZ BEI
		Cholines- terase activ-	Blood		75 % of baseline	NZ BEI



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		ity						
Engir	neering measures	technologies less quick co All engineerir design and o protect produ Containment are required the compoun tainment dev	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.					
Perso	onal protective equip	ment						
Fil	iratory protection ter type protection	: If adequate to sure assessn ommended g : Combined pa	nent demor uidelines, ι	nstrates ex use respira	posures outsi tory protectio	de the rec-		
Ма	aterial	: Chemical-res	Chemical-resistant gloves					
	emarks protection	: Wear safety of If the work er mists or aero Wear a faces	Consider double gloving. Wear safety glasses with side shield If the work environment or activity in mists or aerosols, wear the appropr Wear a faceshield or other full face potential for direct contact to the face aerosols			/ conditions, there is a		
Skin a	and body protection	: Work uniform Additional bo task being pe posable suits Use appropri contaminated	dy garment erformed (e.) to avoid e ate degowr	s should b .g., sleevel xposed sk	ets, apron, ga in surfaces.	auntlets, dis-		

Appearance	:	liquid
Colour	:	clear, Straw-coloured
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available

SAFETY DATA SHEET



Temephos Liquid Formulation

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I	Flash p	oint	:	No data available	9
I	Evapora	ation rate	:	No data available)
I	Flamma	ability (solid, gas)	:	Not applicable	
I	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
v	Vapour	pressure	:	No data available)
I	Relative	e vapour density	:	No data available	9
I	Relative	e density	:	No data available	9
[Density		:	No data available	9
\$	Solubilit Wate	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol/ Auto-igi	vater nition temperature	:	No data available	9
I	Decom	position temperature	:	No data available	9
Ň	Viscosit Visc	y osity, kinematic	:	No data available	9
I	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
I	Molecul	ar weight	:	No data available	9
I	Particle	size	:	Not applicable	

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.





rsion	Revision Date: 27.11.2023		S Number: 314444-00005	Date of last issue: 30.09.2023 Date of first issue: 21.07.2022		
	npatible materials rdous decomposition rcts	:	Oxidizing agents No hazardous de	ecomposition products are known.		
ction 1 ⁴	1: Toxicological infor	matic	n			
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact			
	e toxicity					
	ful if swallowed or if in in contact with skin.	haled.				
<u>Produ</u>	uct:					
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	mate: 1,250 mg/kg on method		
Acute	inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h dust/mist		
Acute dermal toxicity		:	Acute toxicity estimate: 937.5 mg/kg Method: Calculation method			
<u>Comp</u>	oonents:					
Hydro	ocarbons, C10, arom	atics,	<1% naphthalen	e:		
Acute	oral toxicity	:		00 mg/kg est Guideline 420 on data from similar materials		
Acute	inhalation toxicity	:		h		
Acute	e dermal toxicity	:	Assessment: The toxicity	2,000 mg/kg est Guideline 402 substance or mixture has no acute derma on data from similar materials		
Teme	phos:					
	oral toxicity	:	Acute toxicity est Method: Expert ju Remarks: Based			
Acute	inhalation toxicity	:	LC50 (Rat): > 4.7	9 mg/l		



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				Exposure time: 4 Test atmosphere:	
A	cute c	lermal toxicity	:	Acute toxicity esti Method: Expert ju Remarks: Based	
С	alciu	n dodecylbenzenesı	ılph	onate:	
A	cute c	oral toxicity	:	Method: OECD T	
A	cute c	lermal toxicity	:	LD50 (Rabbit): > 2 Method: OECD To Remarks: Based o	
0	Dxiran	e, 2-methyl-, polyme	r wi	th oxirane. mono(nonvlphenvl) ether:
		oral toxicity	:	LD50 (Rat): > 4,0	
A	cute c	lermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
7.	-Oxab	vicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
A	cute c	oral toxicity	:	LD50 (Rat, male): Method: OECD T	: > 2,959 - 5,000 mg/kg est Guideline 401
A	cute ii	nhalation toxicity	:	LC50 (Rat): >= 5. Exposure time: 4 Test atmosphere: Method: OECD To Assessment: The tion toxicity	h dust/mist
A	cute c	lermal toxicity	:	Method: OECD T	
2,	,6-Di-1	ert-butyl-p-cresol:			
A	cute c	oral toxicity	:	LD50 (Rat): > 6,0 Method: OECD Te	
A	cute c	lermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity	

Skin corrosion/irritation

Not classified based on available information.



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_			
	oonents:		
•		natics, <1% naphthaler	
Asses	ssment	: Repeated expos	sure may cause skin dryness or crackin
Teme	phos:		
Speci		: Rabbit	
Resul	t	: No skin irritation	
Calci	um dodecylbenzene	esulphonate:	
Speci	es	: Rabbit	
Metho		: OECD Test Gui	deline 404
Resul	-	: Skin irritation	
Rema	Irks	: Based on data f	rom similar materials
7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho		: OECD Test Gui	
Resul	t	: No skin irritation	
2,6-Di	i-tert-butyl-p-cresol:	:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test Gui	deline 404
Resul		: No skin irritation	
Rema	irks	: Based on data f	rom similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye damaç	ge.	
<u>Comp</u>	oonents:		
•		natics, <1% naphthaler	ne:
Speci Resul		: Rabbit	
Resul		: No eye irritation	rom similar materials
Rema	11K5	. Dased on data i	
	phos:		
Resul			, reversing within 21 days
Rema	ırks	: Based on nation	al or regional regulation.
Calci	um dodecylbenzene	esulphonate:	
Speci	es	: Rabbit	
Resul	t	: Irreversible effect	
Metho		: OECD Test Gui	
	ırks	 Based on data f 	rom similar materials





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7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

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

2,6-Di-tert-butyl-p-cresol:

Species :	:	Rabbit
Result :	:	No eye irritation
Method :	:	OECD Test Guideline 405
Remarks :	:	Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Result :	negative
Remarks :	Based on data from similar materials

Temephos:

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

Calcium dodecylbenzenesulphonate:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	negative
Remarks :	Based on data from similar materials

7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

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



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Asses	ssment	: Probability or e	evidence of skin sensitisation in humans
Test ⁻	sure routes	: Human repeat : Skin contact : Humans	insult patch test (HRIPT)
Resu		: negative	
Chro	nic toxicity		
	ected of causing gene	tic defects.	
<u>Com</u>	oonents:		
		atics, <1% naphthale	
Geno	toxicity in vitro	malian cells Result: negativ	ritro sister chromatid exchange assay in mam re ed on data from similar materials
Geno	toxicity in vivo	cytogenetic tes Species: Rat Application Ro Result: negativ	tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) ute: inhalation (vapour) re ed on data from similar materials
Teme	phos:		
	toxicity in vitro	: Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) re
		Test Type: In v Result: negativ	ritro mammalian cell gene mutation test re
		Test Type: Chr Result: negativ	romosome aberration test in vitro re
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) re
Calci	um dodecylbenzene	sulphonate:	
	toxicity in vitro	: Test Type: Bac Method: OECD Result: negativ	cterial reverse mutation assay (AMES) 0 Test Guideline 471 re ed on data from similar materials
		Test Type: In v Result: negativ	ritro mammalian cell gene mutation test re



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		Test Type: Chro Method: OECD Result: negative	d on data from similar materials omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
Gen	otoxicity in vivo	cytogenetic ass Species: Mouse Application Rou Result: negative	te: Ingestion
	abicyclo[4.1.0]hept-3- otoxicity in vitro	: Test Type: Bact	o[4.1.0]heptane-3-carboxylate: rerial reverse mutation assay (AMES) Test Guideline 471
		Result: positive Test Type: In vir malian cells Result: positive	tro mammalian cell gene mutation test tro sister chromatid exchange assay in mam-
			damage and repair, unscheduled DNA syn- alian cells (in vitro)
Gen	otoxicity in vivo	mammalian live Species: Rat Application Rou	te: Ingestion Test Guideline 486
		Test Type: Micr Species: Mouse Application Rou Result: negative	e te: Intraperitoneal injection
		say Species: Mouse Application Rou	
	n cell mutagenicity - essment	: Positive result(s genicity tests.) from in vivo mammalian somatic cell muta-



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2,6-D	i-tert-butyl-p-cresol:			
Genc	otoxicity in vitro		t Type: Bact sult: negative	erial reverse mutation assay (AMES)
			t Type: In vi sult: negative	tro mammalian cell gene mutation test
			t Type: Chrosult: negative	pmosome aberration test in vitro
Genc	otoxicity in vivo	cyto Spe App	ogenetic test ecies: Rat	agenicity (in vivo mammalian bone-marrow , chromosomal analysis) te: Ingestion
Carc	inogenicity			
	lassified based on ava	ilable infor	mation.	
Com	ponents:			
Teme	ephos:			
Spec Appli	ies cation Route sure time	: 24 1	estion Months ative	
7-0x	abicyclo[4 1 0]bent-3	-vimethvi	7-oxabicvcl	o[4.1.0]heptane-3-carboxylate:
Spec		: Mou	-	
	cation Route		n contact	
Expo	sure time	: 29	Months	
Resu	lt	: neg	ative	
2,6-D)i-tert-butyl-p-cresol:			
Spec	ies	: Rat		
Appli	cation Route	: Inge	estion	
Expo Resu	sure time It		Months ative	
Repr	oductive toxicity			
-	lassified based on ava	ilable infor	mation.	
	ponents:			
	ocarbons, C10, arom	atics. <1%	naphthale	ne:
-	ts on fertility	: Tes Spe	t Type: Thre cies: Rat	e-generation reproduction toxicity study te: inhalation (vapour)
		Res	sult: negative)
		Ror	narks: Rasa	d on data from similar materials

Remarks: Based on data from similar materials



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	Effects ment	on foetal develop-	:	Species: Rat Application Route Result: negative	ro-foetal development :: Ingestion on data from similar materials
	Temep	hos:			
	-	on fertility	:	Test Type: One-c Species: Rat Application Route Result: negative	eneration reproduction toxicity study
	Effects ment	on foetal develop-	:	Test Type: Three Species: Rat Application Route Result: negative	-generation reproduction toxicity study
	Calciu	m dodecylbenzenesu	llph	onate:	
	Effects	on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test :: Ingestion est Guideline 422 on data from similar materials
	Effects ment	on foetal develop-	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test : Ingestion est Guideline 422 on data from similar materials
	7-Oxab	bicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
		on foetal develop-	:	Test Type: Embry Species: Rat Application Route	vo-foetal development
	2,6-Di-1	tert-butyl-p-cresol:			
	Effects	on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
	Effects	on foetal develop-	:	Test Type: Embry	vo-foetal development



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ment			Species: Rat Application Rout Result: negative	
May o	- single exposure cause drowsiness or c conents:	lizzines	S.	
	ocarbons, C10, arom	atics 4	<1% nanhthaler	Je.
	ssment	:	May cause drow	rsiness or dizziness. rom similar materials
Cause		(Nervou		gh prolonged or repeated exposure. h prolonged or repeated exposure.
<u>Comp</u>	oonents:			
Expos Targe	e phos: sure routes et Organs ssment	:		ce significant health effects in animals at cor) mg/kg bw or less.
	um dodecylbenzene	-		ealth effects observed in animals at concentr
			tions of 100 mg/	kg bw or less.
7-0xa	abicvclo[4.1.0]hept-3	-vimeti	n vl 7-oxabicvcl	o[4.1.0]heptane-3-carboxylate:
	sure routes		Ingestion	,
			nood oovity	
	et Organs ssment	:		ce significant health effects in animals at cor I0 to 100 mg/kg bw.
Asses	ssment	:	Shown to produc	
Asses 2,6-D		:	Shown to produc centrations of >1	10 to 100 mg/kg bw. ealth effects observed in animals at concentr
Asses 2,6-D Asses	i-tert-butyl-p-cresol:	:	Shown to produc centrations of >1 No significant he	10 to 100 mg/kg bw. ealth effects observed in animals at concentr
Asses 2,6-D Asses Repe	i-tert-butyl-p-cresol: ssment	:	Shown to produc centrations of >1 No significant he	10 to 100 mg/kg bw. ealth effects observed in animals at concentr
Asses 2,6-D Asses Repe <u>Comp</u>	i-tert-butyl-p-cresol: ssment ated dose toxicity	:	Shown to produc centrations of >1 No significant he tions of 100 mg/	10 to 100 mg/kg bw. ealth effects observed in animals at concentr kg bw or less.
Asses 2,6-D Asses Repe <u>Comp</u> Hydro Speci	ssment i-tert-butyl-p-cresol: ssment ated dose toxicity <u>ponents:</u> pcarbons, C10, arom es	: : natics, <	Shown to produc centrations of >1 No significant he tions of 100 mg/ <1% naphthaler Rat	10 to 100 mg/kg bw. ealth effects observed in animals at concentr kg bw or less.
Asses 2,6-D Asses Repe Comp Hydro Speci NOAE	ssment i-tert-butyl-p-cresol: ssment ated dose toxicity ponents: poarbons, C10, arom es EL	: : : : : : :	Shown to produc centrations of >1 No significant he tions of 100 mg/ <1% naphthaler Rat 300 mg/kg	10 to 100 mg/kg bw. ealth effects observed in animals at concentr kg bw or less.
Asses 2,6-D Asses Repe Comp Hydro Speci NOAE Applio	ssment i-tert-butyl-p-cresol: ssment ated dose toxicity <u>ponents:</u> pcarbons, C10, arom es	: iatics, < : :	Shown to produc centrations of >1 No significant he tions of 100 mg/ <1% naphthaler Rat	10 to 100 mg/kg bw. ealth effects observed in animals at concentr kg bw or less.



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Tomo	phos:		
Speci	-	: Dog	
NOAE		: 0.45 mg/kg	
LOAE		: 12.5 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
Expos		. 90 Days	
Calci	um dodecylbenzene	esulphonate:	
Speci		: Rat	
	L cation Route	: > 200 mg/kg : Ingestion	
	sure time	: 6 - 7 Weeks	
Metho		: OECD Test Gui	deline 422
Rema	ırks	: Based on data f	rom similar materials
Speci		: Rabbit	
NOAE		: > 100 mg/kg	
	cation Route sure time	: Skin contact : 28 Days	
Metho		: OECD Test Gui	deline 410
Rema	ırks	: Based on data f	rom similar materials
		3-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Speci		: Rat	
NOAE LOAE		: 5 mg/kg : 50 mg/kg	
	cation Route	: Ingestion	
•	sure time	: 90 Days	
Metho	bd	: OECD Test Gui	deline 408
•	i-tert-butyl-p-cresol:		
Speci NOAE		: Rat : 25 mg/kg	
	cation Route	: Ingestion	
	sure time	: 22 Months	
-	ation toxicity		
	be fatal if swallowed a <u> Donents:</u>	ind enters airways.	
-		natics, <1% naphthale	
The s	ubstance or mixture i	s known to cause huma man aspiration toxicity h	n aspiration toxicity hazards or has to b



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Section 12: Ecological information

Ecotoxicity		
Components:		
Hydrocarbons, C10, aromati	cs	-
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Temephos:		
Toxicity to fish	:	LC50 : 0.04 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000007 mg/l Exposure time: 48 h
	:	100,000
icity) M-Factor (Chronic aquatic toxicity)	:	100,000
Calcium dodecylbenzenesul	ph	onate:
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials



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			NOEC (Pseudoki	rchneriella subcapitata (green algae)): > 0.1 -
			1 mg/l Exposure time: 72	
Toxic icity)	ity to fish (Chronic tox-	:	mg/l Exposure time: 28	es promelas (fathead minnow)): > 0.1 - 1 3 d on data from similar materials
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	nagna (Water flea)): > 1 mg/l l d on data from similar materials
Toxic	ity to microorganisms	:	Exposure time: 3 Method: OECD T	
	ine, 2-methyl-, polymer ity to fish	wit :	h oxirane, mono(LC50 : 82 mg/l Exposure time: 96	
	abicyclo[4.1.0]hept-3-yl ity to fish	me :		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	agna (Water flea)): 40 mg/l 3 h est Guideline 202
Toxic plants	ity to algae/aquatic s	:	ErC50 (Raphidoc 110 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD T	
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD T	h
	i-tert-butyl-p-cresol: ity to fish	:	LC50 (Danio reric Exposure time: 96	o (zebra fish)): > 0.57 mg/l S h



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				Method: Directive	67/548/EEC, Annex V, C.1.	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
	Toxicity to algae/aquatic plants		:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	Л-Facto city)	or (Acute aquatic tox-	:	1		
Т		to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te		
a		to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.316 mg/l d	
N		or (Chronic aquatic	:	1		
		to microorganisms	:	EC50: > 10,000 m Exposure time: 3 Method: OECD Te	ĥ	
P	Persist	ence and degradabili	ty			
<u>c</u>	Compo	nents:				
	•	arbons, C10, aromati	cs,	•		
B	Biodegr	adability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	19.56 %	
С	Calciur	n dodecylbenzenesul	pho	onate:		
B	Biodegr	adability	:	Result: Readily bi Remarks: Based of	odegradable. on data from similar materials	
С	Dxirane	e, 2-methyl-, polymer	wit	h oxirane, mono(i	nonylphenyl) ether:	
B	Biodegr	adability	:	Result: Not readily Biodegradation: < Exposure time: 28	< 70 %	





ersion 2	Revision Date: 27.11.2023		DS Number: 814444-00005	Date of last issue: 30.09.2023 Date of first issue: 21.07.2022
		3-ylme		o[4.1.0]heptane-3-carboxylate:
Biode	egradability	:	Biodegradation: Exposure time: 2	
2,6-D	i-tert-butyl-p-cresol:	:		
Biode	egradability	:	Biodegradation: Exposure time: 2	
Bioad	ccumulative potentia	al		
<u>Com</u>	ponents:			
Teme	ephos:			
Bioac	cumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): 2,300
	ion coefficient: n- ol/water	:	log Pow: 4.91 Method: OECD	Test Guideline 107
Calci	um dodecylbenzene	sulph	onate:	
Bioac	cumulation	:		n factor (BCF): < 500 d on data from similar materials
	ion coefficient: n- ol/water	:	log Pow: 4.77 Remarks: Calcu	lation
7-Oxa	abicyclo[4.1.0]hept-3	3-ylme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water	:	log Pow: 1.34 Method: OECD	Test Guideline 107
2,6-D	i-tert-butyl-p-cresol:	:		
Bioac	cumulation	:	Species: Cyprin Bioconcentration	us carpio (Carp) n factor (BCF): 330 - 1,800
	ion coefficient: n- ol/water	:	log Pow: 5.1	
	lity in soil ata available			
	r adverse effects ata available			



Temephos Liquid Formulation

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Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 III 9 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Miscellaneous 964 964
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Temephos, 2,6-Di-tert-butyl-p-cresol) 9 III 9 F-A, S-F yes
Transport in bulk according Not applicable for product as s	o Annex II of MARPOL 73/78 and the IBC Code upplied.

National Regulations

NZS 5433		
UN number Proper shipping name	-	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.



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Class	:	9
Packing group	:	Ш
Labels	:	9
Hazchem Code	:	3Z
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

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

Section 16: Other information

Revision Date	:	27.11.2023				
Further information						
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 abbreviation	Full text of other abbreviations					
ACGIH	-					
ACGIT		USA. ACGIH Threshold Limit Values (TLV)				
NZ BEI	:	New Zealand. Biological Exposure Indices				
	:					



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NZ OEL / WES-TWA:Workplace Exposure Standard - Time Weighted averageNZ OEL / WES-STEL:Workplace Exposure Standard - Short-Term Exposure Limit

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.

NZ / EN