



Vers 1.1	sion	Revision Date: 06.04.2024		5 Number: 92250-00002	Date of last issue: 07.11.2023 Date of first issue: 07.11.2023
SEC	<b>TION 1</b> Produc	: IDENTIFICATION t name	:	Diazinon (47%) L	iquid Formulation
	Manufa	acturer or supplier's d	etai	ls	
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	:	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail	address	:	EHSDATASTEW	ARD@msd.com
	Recommended use of the che			cal and restrictio	ons on use
		mended use tions on use	:	Veterinary produc Not applicable	ct

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Nervous system)
Aspiration hazard	:	Category 1

#### **GHS** label elements



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d pictograms		
word	: Danger	•
d statements	H304 May b H315 Cause H317 May c H319 Cause H336 May c H340 May c H350 May c H370 Cause H373 May c	ul if swallowed. e fatal if swallowed and enters airways. es skin irritation. ause an allergic skin reaction. es serious eye irritation. ause drowsiness or dizziness. ause genetic defects. ause cancer. es damage to organs (Nervous system). ause damage to organs (Nervous system) throug r repeated exposure.
utionary statements	P201 Obtain P202 Do not and underste P260 Do not P264 Wash P270 Do not P271 Use or P272 Contai the workplac P280 Wear	a special instructions before use. t handle until all safety precautions have been reacted. t breathe mist or vapours. skin thoroughly after handling. t eat, drink or smoke when using this product. hly outdoors or in a well-ventilated area. minated work clothing should not be allowed out of the second
	CENTER/ do P302 + P352 P304 + P340 and keep co doctor if you P305 + P352 for several n easy to do. ( P308 + P312 CENTER/ do P331 Do NC P333 + P312 vice/ attentio	<ul> <li>2 IF ON SKIN: Wash with plenty of water.</li> <li>2 + P312 IF INHALED: Remove person to fresh a mfortable for breathing. Call a POISON CENTER feel unwell.</li> <li>1 + P338 IF IN EYES: Rinse cautiously with wate ninutes. Remove contact lenses, if present and Continue rinsing.</li> <li>1 IF exposed or concerned: Call a POISON potor.</li> <li>0 T induce vomiting.</li> <li>3 If skin irritation or rash occurs: Get medical ad-</li> </ul>
	06.04.2024 d pictograms word d statements	06.04.202411292250-00002d pictograms:word:Dangerd statements:H302 Harmf H304 May b H315 Cause H317 May c H319 Cause H360 May c H360 May c H370 Cause H373 May c prolonged ofutionary statements:Prevention: P201 Obtain P202 Do not and underst P260 Do not P271 Use or P271 Contain the workplac P280 Wear p tion/ face proResponse: P301 + P310 CENTER/ dd P302 + P355 for several m easy to do. ( P303 + P313 CENTER/ dd P311 Do NC P331 Do NC P331 Do NC P331 Do NC





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#### Disposal:

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

#### Other hazards which do not result in classification

None known.

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

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Diazinon	333-41-5	>= 30 -< 60
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 20 -< 30
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 10 -< 30
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-	2386-87-0	>= 1 -< 10
oxabicyclo[4.1.0]heptane-3-carboxylate		

#### Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
4-Nonylphenol, branched, ethoxylated	68412-54-4

#### **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 plenty of water for at least 15 minutes while removing 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.
Most important symptoms	:	Harmful if swallowed.
and effects, both acute and		May be fatal if swallowed and enters airways.
delayed		Causes skin irritation.
		May cause an allergic skin reaction.





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			May cause gene May cause canc Causes damage	siness or dizziness. tic defects. er.
	Protection of first-aiders	:	First Aid respond and use the reco	ders should pay attention to self-protection, ommended personal protective equipment al for exposure exists (see section 8).
	Notes to physician	:		tically and supportively.
SEC	TION 5. FIREFIGHTING	MEASU	IRES	
	Suitable extinguishing m	nedia :	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	
	Unsuitable extinguishing media	<b>)</b> :	None known.	
	Specific hazards during fighting	fire- :	Exposure to com	bustion products may be a hazard to health.
	Hazardous combustion ucts	prod- :	Carbon oxides Nitrogen oxides Sulphur oxides Oxides of phosp	. ,
	Specific extinguishing m ods	eth- :	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do

# Evacuate area.Special protective equipment:for firefightersIn the event of fire, wear self-contained breathing apparatus.Hazchem Code:•3Z

#### 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 : Soak up with inert absorbent material.





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contai	nment and cleaning up	ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	provide dyking or other appropriate contain- terial from spreading. If dyked material can e 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- lations are applicable. 15 of this SDS provide information regarding ational requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures		ee Engineering measures under EXPOSURE
Local/Total ventilation	: If	sufficient ventilation is unavailable, use with local exhaust entilation.
Advice on safe handling	: D D D D W H pri S K D T	<ul> <li>b) not get on skin or clothing.</li> <li>b) not breathe mist or vapours.</li> <li>b) not swallow.</li> <li>c) not get in eyes.</li> <li>c) vash skin thoroughly after handling.</li> <li>c) landle in accordance with good industrial hygiene and safety ractice, based on the results of the workplace exposure aseessment</li> <li>c) container tightly closed.</li> <li>c) not eat, drink or smoke when using this product.</li> <li>c) ake care to prevent spills, waste and minimize release to the nvironment.</li> </ul>
Hygiene measures	: If flu Pl W C W W T ei ei aj	exposure to chemical is likely during typical use, provide eye ushing systems and safety showers close to the working lace. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the vorkplace. Wash contaminated clothing before re-use. he effective operation of a facility should include review of ngineering controls, proper personal protective equipment, ppropriate degowning and decontamination procedures, ndustrial hygiene monitoring, medical surveillance and the
Conditions for safe storage	: K S K K	se of administrative controls. Teep in properly labelled containers. Tore locked up. Teep tightly closed. Teep in a cool, well-ventilated place. Tore in accordance with the particular national regulations.
Materials to avoid	: D	to not store with the following product types:





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#### 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
Diazinon	333-41-5	TWA	0.1 mg/m3	AU OEL
	Further inform	ation: Skin abso	rption	
		TWA (Inhal- able fraction and vapor)	0.01 mg/m3	ACGIH
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	900 mg/m3	AU OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Diazinon	333-41-5	Acetylcho- linesterase activity	In red blood cells	End of	70 % of an individual's baseline	ACGIH BEI
		Butyrylcho- linesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

Engineering measures	:	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.
Personal protective equipn	nent	
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles.



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Skin a	and body protection	mists or aeroso Wear a faceshie potential for dire aerosols. : Work uniform of Additional body task being perfo posable suits) to	ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or r laboratory coat. garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, dis- o avoid exposed skin surfaces. e degowning techniques to remove potentially othing.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
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
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available





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	octanol		:	Not applicable		
	Auto-ig	nition temperature	: No data available			
	Decom	position temperature	:	No data available	9	
	Viscosi Visc	ty cosity, kinematic	:	No data available	9	
	Explosi	ve properties	:	Not explosive		
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.	
	Molecu	lar weight	:	No data available	e	
	Particle Particle	e characteristics e size	:	Not applicable		

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,262 mg/kg Method: Calculation method
Components:		
Diazinon:		
Acute oral toxicity	:	LD50 (Rat): 1,139 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.437 mg/l





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			Exposure time: 4	
Acute	e dermal toxicity	:	LD50 (Rabbit): >	> 2,020 mg/kg
Solve	ent naphtha (petroleu	ım), li	ght aromatic:	
Acute	e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.61 mg/l Exposure time: 4 h Test atmosphere: vapour	
Acute	e dermal toxicity	:	LD50 (Rabbit): >	> 2,000 mg/kg
4-No	nylphenol, branched,	, etho	xylated:	
	e oral toxicity	:	LD50 (Rat): > 30	00 - 2,000 mg/kg J on data from similar materials
Acute	e dermal toxicity	:	LD50 (Rabbit): >	> 2,000 mg/kg
7-0x	abicyclo[4.1.0]hept-3	-ylme	thyl 7-oxabicycle	o[4.1.0]heptane-3-carboxylate:
Acute	e oral toxicity	:	LD50 (Rat, male Method: OECD	e): > 2,959 - 5,000 mg/kg Test Guideline 401
Acute	e inhalation toxicity	:	Exposure time: 4 Test atmosphere Method: OECD	4 h
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 e substance or mixture has no acute derma
-	corrosion/irritation es skin irritation.			
Com	ponents:			
Diazi	non:			
Spec Resu		:	Rabbit Mild skin irritatio	n
Solve	ent naphtha (petroleu	ım), li	ght aromatic:	
Spec Meth		:	Rabbit OECD Test Guid	deline 404
Resu		:	Skin irritation	דטד סוווסבי





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

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

#### Solvent naphtha (petroleum), light aromatic:

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

#### 4-Nonylphenol, branched, ethoxylated:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

#### 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

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

#### Diazinon:

:	Buehler Test
:	Skin contact
:	Guinea pig
:	negative
	:

#### Solvent naphtha (petroleum), light aromatic:

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





### **Diazinon (47%) Liquid Formulation**

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4-Nor	nylphenol, branched	, ethoxylated:			
Test T		: Human repeat insult patch test (HRIPT)			
	sure routes	: Skin contact			
Resul Rema		: negative : Based on data from similar materials			
7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:			
Test T		: Maximisation Test			
	sure routes	: Skin contact			
Speci		: Guinea pig			
Resul	t	: positive			
Asses	ssment	: Probability or evidence of skin sensitisation in humans			
Chror	nic toxicity				
Germ	cell mutagenicity				
	ause genetic defects				
	oonents:				
Diazir					
		- Test Type: Posterial reverse mutation appay (AMES)			
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
		Test Type: In vitro mammalian cell gene mutation test Result: negative			
		Test Type: Chromosome aberration test in vitro Result: negative			
Genot	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay)			
		Species: Rat Application Route: Intraperitoneal injection			
		Result: positive			
	cell mutagenicity - ssment	: Positive result(s) from in vivo mammalian somatic cell muta genicity tests.			
Solve	ent naphtha (petrole	um), light aromatic:			
Genot	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
		Test Type: In vitro mammalian cell gene mutation test Result: positive			
Genot	toxicity in vivo	: Test Type: Sister chromatid exchange analysis in spermate			
		gonia			
		Species: Mouse Application Route: Intraperitoneal injection			



ersion 1	Revision Date: 06.04.2024	SDS Number:Date of last issue: 07.11.202311292250-00002Date of first issue: 07.11.2023
		Result: positive
	n cell mutagenicity - ssment	: Positive result(s) from in vivo heritable germ cell mutagenici tests in mammals
4-Noi	nylphenol, branched,	ethoxylated:
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn thesis in mammalian cells (in vitro) Result: negative
7 0 1	abiovala[4.1.0]bant 2	ulmothyl 7 ovobiovolo[4 1 0]bontono 2 oorboyylato
	toxicity in vitro	<ul> <li>-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:</li> <li>Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive</li> </ul>
		Test Type: In vitro mammalian cell gene mutation test Result: positive
		Test Type: In vitro sister chromatid exchange assay in mam malian cells Result: positive
		Test Type: DNA damage and repair, unscheduled DNA syn thesis in mammalian cells (in vitro) Result: positive
Geno	toxicity in vivo	<ul> <li>Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 486</li> </ul>
		Result: negative
		Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative
		Test Type: Transgenic rodent somatic cell gene mutation as say Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 488
		Result: positive
	n cell mutagenicity - ssment	: Positive result(s) from in vivo mammalian somatic cell muta genicity tests.



ersion I	Revision Date: 06.04.2024	SDS Number: 11292250-00002	Date of last issue: 07.11.2023 Date of first issue: 07.11.2023
	<b>ogenicity</b> ause cancer.		
Comp	onents:		
Diazin	on:		
Specie	es	: Rat	
	ation Route	: Ingestion	
	ure time	: 104 weeks	
Result		: negative	
Carcin ment	ogenicity - Assess-	: Sufficient evide	nce of carcinogenicity in animal experimer
Solver	nt naphtha (petrole	um), light aromatic:	
Specie		: Mouse	
	ation Route	: Skin contact	
Exposi Result	ure time	: 2 Years	
Result		: positive	
Carcin ment	ogenicity - Assess-	: Sufficient evide	nce of carcinogenicity in animal experimer
4-Non	ylphenol, branche	d, ethoxylated:	
Specie	es	: Rat	
	ation Route	: Ingestion	
	ure time	: 2 Years	
Result Remar		: negative : Based on data	from similar materials
Kennar	N3	. Dased on data	
7-Oxal	bicyclo[4.1.0]hept-	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Specie		: Mouse	
	ation Route	: Skin contact	
Exposi Result	ure time	: 29 Months	
Result		: negative	
Repro	ductive toxicity		
Not cla	assified based on av	ailable information.	
Comp	onents:		
Diazin	on:		
	s on fertility	· Test Type: Thre	e-generation study
2.10000	, on rorany	Species: Rat	generation otday
		Application Rou	
		Result: negative	9
	on foetal develop-	: Test Type: Emb	oryo-foetal development
Effects			
Effects ment		Species: Rat	





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		Result: n	egative
Solv	ent naphtha (petroleu	ım), light aroma	atic:
	ts on fertility	: Test Type test Species:	e: Reproduction/Developmental toxicity screening Rat on Route: inhalation (vapour)
Effec ment	ts on foetal develop-	Species:	on Route: inhalation (vapour)
	ts on foetal develop-	: Test Type Species: Applicatio	on Route: Ingestion OECD Test Guideline 414
May Caus	<b>F - single exposure</b> cause drowsiness or d es damage to organs		ı).
May Caus <u>Com</u>	cause drowsiness or d es damage to organs ponents:		n).
May Caus <b>Com</b> <b>Diazi</b> Expo Targe	cause drowsiness or d es damage to organs ponents:	(Nervous system : Ingestion : Nervous : Shown to	
May Caus Com Diazi Expo Targo Asse	cause drowsiness or d les damage to organs <b>ponents:</b> <b>non:</b> sure routes et Organs ssment	<ul> <li>(Nervous system)</li> <li>: Ingestion</li> <li>: Nervous</li> <li>: Shown to centration</li> </ul>	system produce significant health effects in animals at c ns of 300 mg/kg bw or less.
May Caus Com Diazi Expo Targe Asse	cause drowsiness or d es damage to organs <b>ponents:</b> <b>non:</b> sure routes et Organs	(Nervous system : Ingestion : Nervous : Shown to centration <b>Im), light aroma</b>	system produce significant health effects in animals at c ns of 300 mg/kg bw or less.
May Caus Com Diazi Expo Targo Asse Solvo Asse	cause drowsiness or d les damage to organs ponents: non: sure routes et Organs ssment ent naphtha (petroleu ssment <b>F - repeated exposure</b>	<ul> <li>(Nervous system)</li> <li>: Ingestion</li> <li>: Nervous</li> <li>: Shown to centration</li> <li>im), light aroma</li> <li>: May cause</li> </ul>	system o produce significant health effects in animals at c ns of 300 mg/kg bw or less. <b>atic:</b> se drowsiness or dizziness.
May Caus Com Diazi Expo Targe Asse Solve Asse STO May	cause drowsiness or d les damage to organs ponents: non: sure routes et Organs ssment ent naphtha (petroleu ssment <b>F - repeated exposure</b>	<ul> <li>(Nervous system)</li> <li>: Ingestion</li> <li>: Nervous</li> <li>: Shown to centration</li> <li>im), light aroma</li> <li>: May cause</li> </ul>	system produce significant health effects in animals at c ns of 300 mg/kg bw or less. atic:

Exposure routes : Ingestion





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	t Organs ssment		produce significant health effects in animals at c
		centrations	of >10 to 100 mg/kg bw.
Repe	ated dose toxicity		
Comp	oonents:		
Diazir	non:		
	EL	: Rat : 0.3 mg/kg : 15 mg/kg : Ingestion : 90 Days	
Specie NOAE LOAE	EL	: Rat : 0.1 mg/l : 0.75 mg/l : inhalation (	dust/mist/fume)
	sure time	: 28 Days	
Expos	sure time		
Expos Solve	sure time ent naphtha (petrole	eum), light aromati	
Expos	sure time ent naphtha (petrole es		
Expos Solve Specie LOAE Applic	sure time ent naphtha (petrole es :L cation Route	eum), light aromati : Rat : 500 mg/kg : Ingestion	
Expos Solve Specie LOAE Applic Expos	sure time ent naphtha (petrole es EL cation Route sure time	eum), light aromati : Rat : 500 mg/kg : Ingestion : 28 Days	
Expos Solve Specie LOAE Applic Expos 4-Nor	sure time ent naphtha (petrole es EL cation Route sure time nylphenol, branche	eum), light aromati E Rat E 500 mg/kg E Ingestion E 28 Days d, ethoxylated:	
Expos Solve Specie LOAE Applic Expos <b>4-Nor</b> Specie	sure time ent naphtha (petrole es :L cation Route sure time nylphenol, branche es	eum), light aromati : Rat : 500 mg/kg : Ingestion : 28 Days d, ethoxylated: : Rat	<b>c</b> :
Expos Solve Specie LOAE Applic Expos <b>4-Nor</b> Specie LOAE	sure time ent naphtha (petrole es :L cation Route sure time nylphenol, branche es	eum), light aromati E Rat E 500 mg/kg E Ingestion E 28 Days d, ethoxylated:	c:
Expos Solve Specie LOAE Applic Expos 4-Nor Specie LOAE Applic Expos	sure time ent naphtha (petrole es EL cation Route sure time nylphenol, branche es EL cation Route sure time	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat No mg/k Ingestion 90 Days	<b>c:</b>
Expos Solve Speci- LOAE Applic Expos 4-Nor Speci- LOAE Applic	sure time ent naphtha (petrole es EL cation Route sure time nylphenol, branche es EL cation Route sure time	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat No mg/k Ingestion 90 Days	c:
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema	sure time ent naphtha (petrole es :L cation Route sure time nylphenol, branche es :L cation Route sure time irks	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat Not solved Ingestion 90 Days Based on comparison	<b>c:</b>
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema <b>7-Oxa</b> Specie	ent naphtha (petrole es EL cation Route sure time nylphenol, branche es EL cation Route sure time trks abicyclo[4.1.0]hept- es	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat Ngestion 90 Days Based on co -3-ylmethyl 7-oxab Rat	<b>c</b> : g data from similar materials
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema <b>7-Oxa</b> Specie NOAE	ent naphtha (petrole es EL cation Route sure time nylphenol, branche es EL cation Route sure time urks abicyclo[4.1.0]hept es EL	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat Ngestion 90 Days Based on co -3-ylmethyl 7-oxab Rat S mg/kg	<b>c</b> : g data from similar materials
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema 7-Oxa Specie NOAE LOAE	sure time ent naphtha (petrole es EL cation Route sure time es EL cation Route sure time trks abicyclo[4.1.0]hept es EL	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat Not solved 100 mg/kg Based on co -3-ylmethyl 7-oxab Rat 5 mg/kg 50 mg/kg	<b>c</b> : g data from similar materials
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema <b>7-Oxa</b> Specie NOAE LOAE	sure time ent naphtha (petrole es :L cation Route sure time es :L cation Route sure time urks abicyclo[4.1.0]hepte es :L cation Route cation Route	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat 290 Days Based on co -3-ylmethyl 7-oxab Rat 5 mg/kg 50 mg/kg Ingestion	<b>c</b> : g data from similar materials
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema <b>7-Oxa</b> Specie NOAE LOAE	sure time ent naphtha (petrole es :L cation Route sure time es :L cation Route sure time tirks abicyclo[4.1.0]hepte es :L cation Route sure time cation Route sure time	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat 90 Days Based on co -3-ylmethyl 7-oxab Rat 5 mg/kg 10 mg/kg 1	<b>c</b> : g data from similar materials
Expos Solve Specie LOAE Applic Expos A-Nor Specie LOAE Applic Expos Rema Specie NOAE LOAE Applic Expos	sure time ent naphtha (petrole es :L cation Route sure time es :L cation Route sure time tirks abicyclo[4.1.0]hepte es :L cation Route sure time cation Route sure time	eum), light aromati Rat 500 mg/kg Ingestion 28 Days d, ethoxylated: Rat 90 Days Based on co -3-ylmethyl 7-oxab Rat 5 mg/kg 10 mg/kg 1	c: g data from similar materials icyclo[4.1.0]heptane-3-carboxylate:



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#### **Components:**

#### Solvent naphtha (petroleum), light aromatic:

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.

#### Experience with human exposure

#### **Components:**

Diazinon:

Inhalation

: Symptoms: carcinogenic effects

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### **Components:**

Diazinon:		
Toxicity to fish :	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.09 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0.000164 mg/l Exposure time: 48 h
Toxicity to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): 0.092 mg/l Exposure time: 34 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00017 mg/l Exposure time: 21 d
Solvent naphtha (petroleum),	lig	ght aromatic:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		NOELR (Pseudokirchneriella subcapitata (microalgae)): 0.5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction



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			Method: OECD T	est Guideline 201
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	Vater Accommodated Fraction
4-Noi	nylphenol, branched, e	tho	xylated:	
Toxic	ity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/ 3 h on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			Exposure time: 72 Method: OECD T	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 10	utipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials
	ity to daphnia and other tic invertebrates (Chron- icity)	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0.001 - 0.01 3 d on data from similar materials
7-Oxa	abicvclo[4.1.0]hept-3-vl	me	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	ity to fish	:	• •	hus mykiss (rainbow trout)): 24 mg/l
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Raphidoc 110 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Raphidoc	elis subcapitata (freshwater green alga)): 30





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			mg/l	
			Exposure time: 7	2 h Test Guideline 201
Toxic	ity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD T	
Persi	stence and degradabi	ility		
<u>Com</u>	ponents:			
Solve	ent naphtha (petroleur	m), li	ght aromatic:	
Biode	egradability	:	Result: Inherently Biodegradation: Exposure time: 2	94 %
4-Noi	nylphenol, branched,	etho	xylated:	
Biode	egradability	:	Result: Not readi	
			Remarks: Based	on data from similar materials
	abicvclo[4.1.0]hept-3-	vlme		
7-0xa	abicyclo[4.1.0]hept-3- egradability	ylme :	<b>thyl 7-oxabicyclo</b> Result: Not readi Biodegradation:	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 %
7-0xa		ylme :	<b>thyl 7-oxabicyclo</b> Result: Not readi Biodegradation: Exposure time: 2	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 %
<b>7-Oxa</b> Biode		ylme :	<b>thyl 7-oxabicyclo</b> Result: Not readi Biodegradation: Exposure time: 2	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d
7-Oxa Biode Bioad	egradability	ylme :	<b>thyl 7-oxabicyclo</b> Result: Not readi Biodegradation: Exposure time: 2	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d
7-Oxa Biode Bioad	egradability ccumulative potential ponents:	ylme :	<b>thyl 7-oxabicyclo</b> Result: Not readi Biodegradation: Exposure time: 2	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d
7-Oxa Biode Biode <u>Com</u> j Diazi	egradability ccumulative potential ponents:	ylme :	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	<b>[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B
7-Oxa Biode Bioac Com Diazi Bioac	egradability ccumulative potential ponents: non:	ylme : :	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	<b>o[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B
7-Oxa Biode Bioac Comj Diazi Bioac Partit octan	egradability ccumulative potential ponents: non: ccumulation	:	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T Species: Cyprinu Bioconcentration log Pow: 3.69	<b>o[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B
7-Oxa Biode Biode Com Diazi Bioac Partit octan 4-Noi Partit	egradability ccumulative potential ponents: non: ccumulation ion coefficient: n- iol/water	etho	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T Species: Cyprinu Bioconcentration log Pow: 3.69	<b>o[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B
7-Oxa Biode Biode Comj Diazi Bioac Partit octan Partit octan Partit octan 7-Oxa	egradability ccumulative potential ponents: non: ccumulation ion coefficient: n- iol/water nylphenol, branched, ion coefficient: n- iol/water abicyclo[4.1.0]hept-3-	etho :	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T Species: Cyprinu Bioconcentration log Pow: 3.69 xylated: log Pow: < 4	<b>o[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B
7-Oxa Biode Bioac Comj Diazi Bioac Partit octan Partit octan 7-Oxa Partit	egradability ccumulative potential ponents: non: ccumulation ion coefficient: n- iol/water nylphenol, branched, ion coefficient: n- iol/water	etho	thyl 7-oxabicyclo Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T Species: Cyprinu Bioconcentration log Pow: 3.69 xylated: log Pow: < 4 thyl 7-oxabicyclo log Pow: 1.34	<b>o[4.1.0]heptane-3-carboxylate:</b> ly biodegradable. 71 % 8 d Test Guideline 301B





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#### Other adverse effects

No data available

#### **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	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Diazinon, 4-Nonylphenol, branched, ethoxylated)
Class	÷	9
Packing group	÷	 9
	•	-
Environmentally hazardous	·	yes
IATA-DGR		
•	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Diazinon, 4-Nonylphenol, branched, ethoxylated)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Diazinon, 4-Nonylphenol, branched, ethoxylated)
Class	:	9
Packing group	:	
Labels	:	9
	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.





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Natio	nal Regulations		
<b>ADG</b> UN nu	-	: UN 3082 : ENVIRONMENT	FALLY HAZARDOUS SUBSTANCE, LIQUID,

		N.O.S.
		(Diazinon, 4-Nonylphenol, branched,
Class	:	9
Packing group	:	III
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 mix-ture

Therapeutic Goods (Poisons	:	Schedule 6 (Please use the original publication to check for
Standard) Instrument		specific uses, specific conditions or threshold limits that might
		apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

ethoxylated)

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

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

#### SECTION 16: ANY OTHER RELEVANT INFORMATION

#### Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy



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#### Full text of other abbreviations

ACGIH ACGIH BEI AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) 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.

AU / EN