

Diazinon Formulation

Vers 2.6	sion	Revision Date: 06.04.2024		S Number: 9391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020		
SEC	TION 1 Produc	IDENTIFICATION	:	Diazinon Formula	ation		
	Manufa	cturer or supplier's d	letai	ls			
	Compa		:	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 a	address	:	EHSDATASTEW	ARD@msd.com		
	Recommended use of the ch		nemi	cal and restrictio	ons on use		
		mended use ions on use	:	Veterinary produce 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 1
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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Hazard pic	ctograms			
Signal wor	ď	: Dar	nger	\checkmark \checkmark
Hazard sta	atements	H30 H31 H31 H33 H34 H35 H37 H37	4 May be f 5 Causes s 7 May causes 8 Causes s 6 May causes 0 May causes 0 May causes 70 Causes of 73 May causes	If swallowed. atal if swallowed and enters airways. skin irritation. se an allergic skin reaction. serious eye damage. se drowsiness or dizziness. se genetic defects. se cancer. damage to organs (Nervous system). se damage to organs (Nervous system) throug se damage to organs (Nervous system) throug
Precautior	hary statements	P20 P20 and P26 P26 P27 P27 P27 the P28	2 Do not ha understood 0 Do not bu 4 Wash ski 0 Do not ea 1 Use only 2 Contamir workplace.	reathe mist or vapours. In thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. hated work clothing should not be allowed out
		P30 CEN P30 and doc P30 wate and CEN P30 CEN P33 P33	NTER/ doct 12 + P352 II 14 + P340 + keep comf tor if you fe 15 + P351 + er for sever easy to do NTER/ doct 18 + P311 II NTER/ doct 11 Do NOT	 ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh a ortable for breathing. Call a POISON CENTER el unwell. P338 + P310 IF IN EYES: Rinse cautiously wal minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. F exposed or concerned: Call a POISON
			rage: 5 Store loc	ked up.
		Dis	posal:	



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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
Nonylphenol, ethoxylated	9016-45-9	>= 10 -< 30
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	>= 1 -< 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 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 immediately.
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 and effects, both acute and delayed	:	Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Causes damage to organs. May cause damage to organs through prolonged or repeated



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		tion of first-aiders to physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.
SEC	TION 5	. FIREFIGHTING MEA	SU	RES	
2	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		:	None known.	
	Specifi fighting	c hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides Oxides of phosph	
	Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
t	for firef	l protective equipment ighters em Code	:	In the event of fire	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
t	tive eq	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- 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.
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Methods and materials for Soak up with inert absorbent material. : For large spills, provide dyking or other appropriate containcontainment and cleaning up 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 absorbent.

Local or national regulations may apply to releases and dis-





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		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 S	TORAGE				
Tech	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.			
Loca	l/Total ventilation		ntilation is unavailable, use with local exhaust			
	ce on safe handling	: Do not get on Do not breathe Do not swallow Do not get in e Wash skin tho Handle in acco practice, base sessment Keep containe Do not eat, dri Take care to p environment.	eyes. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- er tightly closed. nk or smoke when using this product. orevent spills, waste and minimize release to the			
Hygi	ene measures	flushing syster place. When using do Contaminated workplace. Wash contami The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.			
Cond	ditions for safe storage	: Keep in prope Store locked u Keep tightly cl Keep in a cool	rly labelled containers. p. osed. , well-ventilated place.			
Mate	erials to avoid		dance with the particular national regulations. with the following product types: ng agents			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Diazinon	333-41-5	TWA	0.1 mg/m3	AU OEL
	Further inform	ation: Skin abso	ption	
		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 shift	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	tec les All des pro Co are the tair	e appropriate e hnologies to co s quick connect engineering co sign and opera- tect products, ntainment tech required to co compound to ment devices himize open ha	ontrol airborr ctions). ontrols should ted in accord workers, and nologies sui- ontrol at sour- uncontrolled).	the concentr d be impler dance with d the enviro table for co ce and to p	ations (e.g., d nented by faci GMP principle onment. ntrolling comp revent migrati	rip- lity s to ounds on of
Personal protective equ	ipment					
Respiratory protection	sur om	dequate local e assessment mended guide	demonstrate lines, use re	es exposure spiratory pr	es outside the otection.	
Filter type Hand protection	: 0	mbined particu	liates and or	ganic vapo	ur type	
Material	: Ch	emical-resista	nt gloves			
Remarks Eye protection	: We If th Mis We pot aer	nsider double ear safety glass ne work enviro sts or aerosols ear a faceshiele ential for direc rosols.	ses with side nment or act , wear the ap d or other full t contact to t	ivity involve propriate g I face prote he face wit	es dusty condi oggles. ction if there is	sa
Skin and body protection		ork uniform or l ditional body g			d based upon	the



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			posable suits) to	rmed (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially othing.
SECTION	9. PHYSICAL AND CH	ΞΜΙΟ		ES
Appea	arance	:	liquid	
Colou	r	:	yellow	
Odou	r	:	characteristic	
Odou	Threshold	:	No data availab	le
рН		:	No data availat	le
Meltin	g point/freezing point	:	No data availab	le
Initial range	boiling point and boiling	:	No data availat	le
Flash	point	:	No data availab	le
Evapo	oration rate	:	No data availab	le
Flamn	nability (solid, gas)	:	Not applicable	
Flamn	nability (liquids)	:	No data availab	le
	explosion limit / Upper ability limit	:	No data availat	le
	explosion limit / Lower ability limit	:	No data availat	le
Vapoι	ur pressure	:	No data availab	le
Relati	ve vapour density	:	No data availab	le
Relati	ve density	:	No data availab	le
Densi	ty	:	1,030 - 1,090 g	/cm³
	ility(ies) ater solubility	:	No data availat	le
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data availab	le
Decor	mposition temperature	:	No data availab	le



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Visco Vi	osity scosity, kinematic	: No da	ata available)
Explo	osive properties	: Not e	xplosive	
Oxidi	zing properties	: The s	substance or	r mixture is not classified as oxidizing.
Moleo	cular weight	: No da	ata available)
	cle characteristics cle size	: Not a	pplicable	

SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	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: 1,192 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 Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,020 mg/kg

Solvent naphtha (petroleum), light aromatic:



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Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tir Test atmosp	
Acute	dermal toxicity	: LD50 (Rabb	it): > 2,000 mg/kg
Nony	Iphenol, ethoxylated:		
Acute	oral toxicity	: LD50 (Rat):	500 - 2,000 mg/kg
7-Oxa	bicyclo[4.1.0]hept-3-	ylmethyl 7-oxabio	cyclo[4.1.0]heptane-3-carboxylate:
Acute	oral toxicity		nale): > 2,959 - 5,000 mg/kg CD Test Guideline 401
Acute	inhalation toxicity	Method: OE	
Acute	dermal toxicity		> 2,000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute derma
_	corrosion/irritation		
	oonents:		
Diazir	non:		
Speci		: Rabbit	
Resul	t	: Mild skin irri	tation
Solve	nt naphtha (petroleu	m), light aromatic	:
Speci		: Rabbit	
Metho Resul		: OECD Test : Skin irritatio	Guideline 404 n
Nonv	Iphenol, ethoxylated:		
Speci		: Rabbit	
Metho	bd		Guideline 404
Resul	t	: No skin irrita	ation
7-Oxa	bicyclo[4.1.0]hept-3-	ylmethyl 7-oxabio	cyclo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	-



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Metho	bd	: OECD Test Gui	ideline 404
Resul		: No skin irritation	
	us eye damage/eye es serious eye dama		
<u>Comp</u>	ponents:		
Solve	ent naphtha (petrole	eum), light aromatic:	
Speci		: Rabbit	
Resul		: No eye irritation	
Metho	bd	: OECD Test Gu	ideline 405
Nony	Iphenol, ethoxylate	d:	
Speci	• • •	: Rabbit	
Resul	lt	: Irreversible effe	
Metho	bd	: OECD Test Gu	ideline 405
7-0xa	abicyclo[4.1.0]hept-	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	•
Resul		: No eye irritation	
Metho	bd	: OECD Test Gu	ideline 405
weult			
	iratory or skin sens	itisation	
Resp	iratory or skin sens sensitisation	itisation	
Resp Skin s	-		
Resp Skin s May c	sensitisation	reaction.	
Resp Skin s May c Resp	sensitisation cause an allergic skir	reaction. 1	
Resp Skin s May c Resp Not cl	sensitisation cause an allergic skir iratory sensitisatio	reaction. 1	
Resp Skin s May c Resp Not cl	sensitisation cause an allergic skin iratory sensitisation lassified based on av ponents:	reaction. 1	
Resp Skin s May c Resp Not cl <u>Comp</u> Diazin Test T	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type	reaction. n railable information. : Buehler Test	
Resp Skin s May c Resp Not cl <u>Comp</u> Diazin Test T Expos	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes	reaction. n railable information. : Buehler Test : Skin contact	
Resp Skin s May c Resp Not cl Comp Diazin Test T Expos Speci	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes	reaction. n railable information. : Buehler Test : Skin contact : Guinea pig	
Resp Skin s May c Resp Not cl <u>Comp</u> Diazin Test T Expos	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes	reaction. n railable information. : Buehler Test : Skin contact	
Resp Skin s May c Resp Not cl Comp Diazin Test Expos Speci Resul	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les	reaction. n railable information. : Buehler Test : Skin contact : Guinea pig	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>ponents:</u> non: Type sure routes les lt ent naphtha (petrole	a reaction. n railable information. : Buehler Test : Skin contact : Guinea pig : negative sum), light aromatic: : Buehler Test	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les lt ent naphtha (petrole Type sure routes	reaction. railable information. : Buehler Test : Skin contact : Guinea pig : negative : negative : Buehler Test : Skin contact	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos Speci	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les It ent naphtha (petrole Type sure routes es	reaction. n railable information. : Buehler Test : Skin contact : Guinea pig : negative eum), light aromatic: : Buehler Test : Skin contact : Skin contact : Guinea pig	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les It ent naphtha (petrole Type sure routes es	reaction. railable information. : Buehler Test : Skin contact : Guinea pig : negative : negative : Buehler Test : Skin contact	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos Speci Resul	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les It ent naphtha (petrole Type sure routes es	a reaction. n railable information. : Buehler Test : Skin contact : Guinea pig : negative eum), light aromatic: : Buehler Test : Skin contact : Guinea pig : negative	
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos Speci Resul Nony Test T	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> non: Type sure routes les lt ent naphtha (petrole Type sure routes les lt It Iphenol, ethoxylate	a reaction. n railable information. : Buehler Test : Skin contact : Guinea pig : negative eum), light aromatic: : Buehler Test : Skin contact : Guinea pig : negative	est
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos Speci Resul Nony Test T	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>ponents:</u> non: Type sure routes les lt ent naphtha (petrole Type sure routes les lt Iphenol, ethoxylate Type sure routes	reaction. railable information. : Buehler Test : Skin contact : Guinea pig : negative eum), light aromatic: : Buehler Test : Skin contact : Guinea pig : negative d: : Maximisation Tr : Skin contact	est
Resp Skin s May o Resp Not cl Comp Diazin Test T Expos Speci Resul Solve Test T Expos Speci Resul Nony Test T	sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>ponents:</u> non: Type sure routes les lt ent naphtha (petrole Type sure routes les lt Iphenol, ethoxylate Type sure routes	reaction. railable information. : Buehler Test : Skin contact : Guinea pig : negative eum), light aromatic: : Buehler Test : Skin contact : Guinea pig : negative d: : Maximisation Te	est



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Re: Rei	sult narks	:	negative Based on data f	rom similar materials
7-0	xabicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Exp	at Type posure routes ecies sult	:	Maximisation Te Skin contact Guinea pig positive	est
Ass	essment	:	Probability or ev	vidence of skin sensitisation in humans
Ch	onic toxicity			
	r m cell mutagenicity y cause genetic defects.			
<u>Co</u>	nponents:			
	zinon: notoxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
			Test Type: Chro Result: negative	omosome aberration test in vitro
Gei	notoxicity in vivo	:	cytogenetic ass Species: Rat	nmalian erythrocyte micronucleus test (in vivo ay) te: Intraperitoneal injection
	m cell mutagenicity -	:	Positive result(s genicity tests.) from in vivo mammalian somatic cell muta-
Sol	vent naphtha (petroleu	m), li	ght aromatic:	
	notoxicity in vitro	:	-	erial reverse mutation assay (AMES)
			Test Type: In vi Result: positive	tro mammalian cell gene mutation test
Gei	notoxicity in vivo	:	gonia Species: Mouse	er chromatid exchange analysis in spermato- e te: Intraperitoneal injection
Gei	m cell mutagenicity -	:	Positive result(s) from in vivo heritable germ cell mutagenicity



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Asses	ssment	tests in man	nmals
-	Iphenol, ethoxylated toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials
7-Oxa	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabio	cyclo[4.1.0]heptane-3-carboxylate:
Geno	toxicity in vitro	Method: OE Result: posi	n vitro mammalian cell gene mutation test
			n vitro sister chromatid exchange assay in mam-
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) tive
Geno	toxicity in vivo	mammalian Species: Ra Application	Route: Ingestion CD Test Guideline 486
		Species: Mo	Route: Intraperitoneal injection
		say Species: Mo Application	Route: Ingestion CD Test Guideline 488
	cell mutagenicity -	: Positive resi genicity test	ult(s) from in vivo mammalian somatic cell muta- s.

Carcinogenicity

May cause cancer.



Services Rat Application Route Ingestion Exposites Ingestion Exposite time 104 weeks Result Ingestion Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment ment Solvent naphtha (petroleum), light aromatic: Species Image: Mouse Application Route Image: Strength animal experiment Carcinogenicity - Assess- Image: Strength animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Mouse Application Route Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence of carcinogenicity in animal experiment Carcinogenicity - Assess- Sufficient evidence<	ersion 6	Revision Date: 06.04.2024	SDS Number: 7699391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020
Diazinon: Species : Rat Application Route : Ingestion Exposure time : 104 weeks Result : negative Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment Solvent naphtha (petroleum), light aromatic: Species : Mouse Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment ment : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment ment : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment ment : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment ment : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment ment : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment Species : Mouse				
Species : Rat Application Route : Ingestion Exposure time : 104 weeks Result : negative Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment Solvent naphtha (petroleum), light aromatic: Species : Species : Mouse Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment 7-Oxabicyclo[4.1.0]hept-3-yumethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: Species Species : Mouse Application Route : Skin contact Exposure time : 29 Months Result : negative Reproductive toxicity Not classified based on available information. Components: : Diazinon: Effects on foetal develop- : Test Type: Three-generation study Species: Rat Application Route: Ingestion	<u>Com</u> r	ponents:		
Application Route : Ingestion Exposure time : 104 weeks Result : negative Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment Solvent naphtha (petroleum), light aromatic: Species : Mouse Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess- : Sufficient evidence of carcinogenicity in animal experiment 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: Species : Mouse Application Route : Skin contact : : Species : Mouse Application Route : : Application Route : Skin contact : : : Species : Mouse :	Diazi	non:		
Exposure time : 104 weeks Result : negative Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experiment Solvent naphtha (petroleum), light aromatic: Species Species : Mouse Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experiment ment 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: Species : Mouse Application Route : Skin contact Exposure time : 29 Months Result : negative Reproductive toxicity Not classified based on available information. Components: Diazinon: Effects on fertility : Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative Solvent naphtha (petroleum), light aromatic: : Effects on fertility : Test Type: Embryo-foetal development ment Solvent naphtha (petroleum), light aromatic: : Effects on fertility : Test Type: Reproduction/Developmental toxicity screenin test Sp	Speci	ies	: Rat	
Result : negative Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experiment Solvent naphtha (petroleum), light aromatic: : Species Species : Mouse Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess- ment : Sufficient evidence of carcinogenicity in animal experiment 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: Species : Mouse Application Route : Skin contact Exposure time : 29 Months Result : negative Reproductive toxicity Not classified based on available information. Components: Diazinon: Effects on fertility : Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative Effects on foetal develop- ment : Test Type: Reproduction/Development Species: Rat Application Route: Inhalation (vapour) Result: negative Solvent naphtha (petroleum), light aromatic: Effects on fertility : Test Type: Reproduction/Developmental toxicity screenin test Species: Rat Application Route: inhalation (vapour) Result: negative <td></td> <td></td> <td></td> <td></td>				
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Application Route : Skin contact Exposure time : 2 Years Result : positive Carcinogenicity - Assess	Solve	ent naphtha (petroleu	m), light aromatic:	
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Application Route: inhalation (vapour) Result: negative Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat	ment Solve	ent naphtha (petroleu	Species: Rat Application Rou Result: negative m), light aromatic:	te: Ingestion
Effects on foetal develop- ment Test Type: Embryo-foetal development	ment Solve	ent naphtha (petroleu	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep	te: Ingestion
Effects on foetal develop- : Test Type: Embryo-foetal development ment Species: Rat	ment Solve	ent naphtha (petroleu	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep test	te: Ingestion
ment Species: Rat	ment Solve	ent naphtha (petroleu	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep test Species: Rat Application Rou	te: Ingestion roduction/Developmental toxicity screenin te: inhalation (vapour)
ment Species: Rat	ment Solve	ent naphtha (petroleu	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep test Species: Rat Application Rou	te: Ingestion roduction/Developmental toxicity screenin te: inhalation (vapour)
Application Route: inhalation (vapour)	ment Solve Effect	ent naphtha (petroleu ts on fertility	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep test Species: Rat Application Rou Result: negative	roduction/Developmental toxicity screenin te: inhalation (vapour)
	ment Solve Effect	ent naphtha (petroleu ts on fertility ts on foetal develop-	Species: Rat Application Rou Result: negative m), light aromatic: : Test Type: Rep test Species: Rat Application Rou Result: negative : Test Type: Emb Species: Rat	roduction/Developmental toxicity screenin te: inhalation (vapour)



Diazinon Formulation

rsion	Revision Date: 06.04.2024	SDS Number: 7699391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020
		Result: negativ	e
	abicyclo[4.1.0]hept-3 s on foetal develop-	: Test Type: Em Species: Rat Application Ro	Test Guideline 414
May o	- single exposure cause drowsiness or d es damage to organs		
<u>Comp</u>	oonents:		
Targe	non: sure routes et Organs ssment		m uce significant health effects in animals at con- 300 mg/kg bw or less.
	ent naphtha (petroleu ssment		wsiness or dizziness.
	- repeated exposure cause damage to orga		hrough prolonged or repeated exposure.
<u>Com</u>	oonents:		
Targe	non: sure routes et Organs ssment		n uce significant health effects in animals at con- >10 to 100 mg/kg bw.
7-0xa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Expos Targe	sure routes et Organs ssment	: Ingestion : nasal cavity : Shown to produ	uce significant health effects in animals at con- 10 to 100 mg/kg bw.
Repe	ated dose toxicity		
-	ated dose toxicity conents:		
-	ponents:		



rsion	Revision Date: 06.04.2024	SDS Number: 7699391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020
	cation Route	: Ingestion	
Expo	sure time	: 90 Days	
Spec		: Rat	
NOA LOAE		: 0.1 mg/l : 0.75 mg/l	
-	cation Route	: inhalation (dust	t/mist/fume)
Ехро	sure time	: 28 Days	
Solve	ent naphtha (petrole	um), light aromatic:	
Spec		: Rat	
LOAE Appli	=L cation Route	: 500 mg/kg : Ingestion	
	sure time	: 28 Days	
			lo[4.1.0]heptane-3-carboxylate:
Spec NOA		: Rat : 5 mg/kg	
LOA		: 50 mg/kg	
Appli	cation Route	: Ingestion	
Appli	sure time	: Ingestion : 90 Days : OECD Test Gu	ideline 408
Appli Expo Meth Aspi	sure time od ration toxicity	: 90 Days : OECD Test Gu	ideline 408
Appli Expo Meth Aspi May	sure time od ration toxicity be fatal if swallowed a	: 90 Days : OECD Test Gu	ideline 408
Appli Expo Meth Aspi May <u>Com</u>	sure time od ration toxicity be fatal if swallowed a <u>ponents:</u>	: 90 Days : OECD Test Gu and enters airways.	ideline 408
Appli Expo Meth Aspi May Com Solve	sure time od ration toxicity be fatal if swallowed a <u>ponents:</u> ent naphtha (petrole substance or mixture i	: 90 Days : OECD Test Gu and enters airways. um), light aromatic:	an aspiration toxicity hazards or has to be re-
Appli Expo Meth May Com Solve The s garde	sure time od ration toxicity be fatal if swallowed a <u>ponents:</u> ent naphtha (petrole substance or mixture i	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity	an aspiration toxicity hazards or has to be re-
Appli Expo Meth May I Com Solve The s garde Expe	sure time od ration toxicity be fatal if swallowed a <u>ponents:</u> ent naphtha (petrole substance or mixture i ed as if it causes a hui	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity	an aspiration toxicity hazards or has to be re-
Appli Expo Meth May I Com Solve The s garde Expe	sure time od ration toxicity be fatal if swallowed a <u>ponents:</u> ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents:	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity	an aspiration toxicity hazards or has to be re-
Appli Expo Meth Aspin May Com Solve The s garde Expe <u>Com</u>	sure time od ration toxicity be fatal if swallowed a ponents: ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents:	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: Is known to cause huma man aspiration toxicity exposure	an aspiration toxicity hazards or has to be re-
Appli Expo Meth Aspi May Com Solve The s garde Expe Com Diazi Inhala	sure time od ration toxicity be fatal if swallowed a ponents: ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents:	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity exposure : Symptoms: car	an aspiration toxicity hazards or has to be re- hazard.
Appli Expo Meth Aspi May 1 Com Solve The s garde Expe Com Diazi Inhal	sure time od ration toxicity be fatal if swallowed a ponents: ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents: inon: ation	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity exposure : Symptoms: car	an aspiration toxicity hazards or has to be re- hazard.
Appli Expo Meth Aspi May 1 Com Solve The s garde Expe Com Diazi Inhal CTION	sure time od ration toxicity be fatal if swallowed a ponents: ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents: inon: ation	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity exposure : Symptoms: car	an aspiration toxicity hazards or has to be re- hazard.
Appli Expo Meth Aspi May 1 Com Solve The s garde Expe Com Diazi Inhal CTION	sure time od ration toxicity be fatal if swallowed a ponents: ent naphtha (petrole substance or mixture i ed as if it causes a hun erience with human e ponents: inon: ation 12. ECOLOGICAL IN oxicity ponents:	: 90 Days : OECD Test Gu and enters airways. um), light aromatic: s known to cause huma man aspiration toxicity exposure : Symptoms: car	an aspiration toxicity hazards or has to be re- hazard.



Versio 2.6	n	Revision Date: 06.04.2024		99391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020	
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 0.000164 mg/l 8 h	
	Toxicity to fish (Chronic tox- icity)		:	NOEC (Pimephales promelas (fathead minnow)): 0.092 mg/l Exposure time: 34 d		
а	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 0.00017 mg/l Exposure time: 21 d		
S	olven	t naphtha (petroleum), li	ght aromatic:		
		to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 8.2 mg/l 5 h Vater Accommodated Fraction	
		to daphnia and other invertebrates	:	Exposure time: 48	Vater Accommodated Fraction	
	oxicity lants	to algae/aquatic	:	Exposure time: 96	Vater Accommodated Fraction	
				mg/l Exposure time: 96	Vater Accommodated Fraction	
а		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	Vater Accommodated Fraction	
N	lonvin	henol, ethoxylated:				
		to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials	
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials	
	Toxicity to algae/aquatic plants		:	ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials		
				EC10 (Selenastru	m capricornutum (green algae)): > 1 mg/l	



sion	Revision Date: 06.04.2024	-	99391-00009	Date of last issue: 30.09.2023 Date of first issue: 22.12.2020
			Exposure time: Method: OECD	72 h Test Guideline 201
			Remarks: Base	d on data from similar materials
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time:	latipes (Japanese medaka)): > 0.1 - 1 mg/l 100 d d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	mg/l Exposure time:	osis bahia (opossum shrimp)): > 0.001 - 0.01 28 d d on data from similar materials
7-Oxa	bicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Toxici	ty to fish	:	Exposure time:	nchus mykiss (rainbow trout)): 24 mg/l 96 h Test Guideline 203
	ty to daphnia and other ic invertebrates	:	Exposure time:	magna (Water flea)): 40 mg/l 48 h Test Guideline 202
Toxici plants	ty to algae/aquatic	:	110 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): : 72 h Test Guideline 201
			mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): 3 72 h Test Guideline 201
Toxici	ty to microorganisms	:	Exposure time:	l sludge): 409 mg/l 3 h Test Guideline 209
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	nt naphtha (petroleum gradability), lig :	-	
-	l phenol, ethoxylated: gradability	:		lily biodegradable. d on data from similar materials



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Bio	Biodegradability		Result: Not readil Biodegradation: Exposure time: 20 Method: OECD T	71 %
Bio	accumulative potential			
<u>Cor</u>	nponents:			
Dia	zinon:			
Bioa	accumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 46.9
	tition coefficient: n- anol/water	:	log Pow: 3.69	
Nor	nylphenol, ethoxylated:			
	tition coefficient: n- anol/water	:	log Pow: 4.48	
7-0	xabicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	tition coefficient: n- anol/water	:	log Pow: 1.34 Method: OECD T	est Guideline 107
Mo	bility in soil			
	data available			
Oth	er adverse effects			
No	data available			
SECTIO	N 13. DISPOSAL CONSI	DEF	RATIONS	
Dis	posal methods			
Waste from residues : Do not dispose of waste into sewer.			f waste into sewer.	

Dispose of in accordance with local regulations.	
Dispose of in accordance with local regulations.	
Contaminated packaging : Empty containers should be taken to an approved wast dling site for recycling or disposal. If not otherwise specified: Dispose of as unused production	
in hot otherwise specified. Dispose of as unused produc	·

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diazinon)
Class	:	9
Packing group	:	
Labels	:	9



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En	vironmentally hazardous	:	yes				
IA	TA-DGR						
	I/ID No.	:	UN 3082				
	Proper shipping name		Environmentally hazardous substance, liquid, n.o.s. (Diazinon)				
	ass	:	9				
	cking group	:					
Pa	bels cking instruction (cargo	:	Miscellaneous 964				
Pa	craft) cking instruction (passen- r aircraft)	:	964				
	vironmentally hazardous	:	yes				
١U	DG-Code I number oper shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
Pa La En	ass cking group bels nS Code arine pollutant		(Diazinon) 9 III 9 F-A, S-F yes				
Tra	ansport in bulk according	ı to	Annex II of MARP	OL 73/78 and the IBC Code			
	t applicable for product as	-					
Na	tional Regulations						
)G I number oper shipping name	:	UN 3082 ENVIRONMENT/ N.O.S. (Diazinon)	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
Pa La Ha	ass cking group bels izchem Code vironmentally hazardous	: : : : : : : : : : : : : : : : : : : :	9 III 9 •3Z 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

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



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			apply for this che	mical)			
Prohibition/Licensing Requirements					There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:							
DSL		:	not determined				
AICS	5	:	not determined				
IECS	C	:	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				
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;



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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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