according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Vers 3.0	sion	Revision Date: 28.09.2024		S Number: 342830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022	
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION					
	Produc	t name	:	Diazinon (9%) Li	quid Formulation	
	Other n	neans of identification	:	Coopers Gold Sp (86314)	oray-on Off-Shears Sheep Lice Treatment	
	Manufa Compa	acturer or supplier's d ny	letai :	i ls MSD		
	Addres	S	:	Briahnager - Off Wagholi - Pune -	Pune Nagar Road India 412 207	
	Telepho	one	:	+1-908-740-4000)	
	Emerge	ency telephone number	:	+1-908-423-6000)	
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com	
	Recom	mended use of the ch mended use iions on use	nem : :	ical and restrictio Veterinary produ Not applicable		

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Acute toxicity (Oral)	:	Category 5
Skin corrosion/irritation	:	Category 3
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 1B
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 2 (Nervous system)



according to the Globally Harmonized System

Version 3.0	Revision Date: 28.09.2024	SDS Number: 10842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
Shor	t-term (acute) aquatic	: Category 1	
haza	rd		
Long haza	-term (chronic) aquatic rd	: Category 1	
GHS	label elements		
Haza	ard pictograms		
Signa	al word	: Danger	• • •
Haza	ard statements	H316 Causes m H317 May caus H318 Causes s H341 Suspecte H350 May caus H360Df May da fertility. H371 May caus	armful if swallowed. hild skin irritation. e an allergic skin reaction. erious eye damage. d of causing genetic defects. e cancer. mage the unborn child. Suspected of damaging e damage to organs (Nervous system). to aquatic life with long lasting effects.
Preca	autionary statements	Prevention:	
		P203 Obtain, re P260 Do not bre P264 Wash har P270 Do not ea P272 Contamin the workplace. P273 Avoid rele	ad and follow all safety instructions before use. eathe mist or vapours. dds thoroughly after handling. t, drink or smoke when using this product. ated work clothing should not be allowed out of ease to the environment. ective gloves/ protective clothing/ eye protec- tion.
		Response:	
		rash occurs: Ge P302 + P352 IF P305 + P354 + with water for se sent and easy te P308 + P316 IF cal help immedi	ON SKIN: Wash with plenty of water. P338 + P317 IF IN EYES: Immediately rinse everal minutes. Remove contact lenses, if pre- o do. Continue rinsing. Get medical help. exposed or concerned: Get emergency medi- ately. ake off contaminated clothing and wash it before
		Storage: P405 Store lock	red up
		Disposal:	
		-	

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	28.09.2024	10842830-00006	Date of first issue: 26.08.2022



-

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dibutyl phthalate	84-74-2	>= 50 - < 70
Diazinon	333-41-5	>= 5 - < 10
Calcium dodecylbenzenesulphonate	26264-06-2	>= 5 - < 10
Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether	37251-69-7	>= 5 - < 10
Alcohols, C12-15, ethoxylated	68131-39-5	>= 1 - < 2.5
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3-carboxylate	2386-87-0	>= 1 - < 2.5
4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H- pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2- phenyl-3H-pyrazol-3-one	4702-90-3	>= 1 - < 2.5

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice 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. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	 May be harmful if swallowed. Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. May damage the unborn child. Suspected of damaging fertili-

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Vers 3.0	ion	Revision Date: 28.09.2024			Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
		ion of first-aiders o physician	:	and use the recommune when the potential	e to organs. s should pay attention to self-protection, mended personal protective equipment for exposure exists (see section 8). ally and supportively.
5. FI	REFIGI	HTING MEASURES			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant fo Carbon dioxide (CC Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to combu	stion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (NG Sulphur oxides Oxides of phosphot Metal oxides Sulphur compounds	rus
	Specific ods	c extinguishing meth-	:	cumstances and the Use water spray to	neasures that are appropriate to local cir- e surrounding environment. cool unopened containers. ed containers from fire area if it is safe to do
	Special for firef	protective equipment ighters	:	In the event of fire, Use personal prote	wear self-contained breathing apparatus. ctive equipment.
6. A0	CCIDEN	TAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- upment and emer- procedures	:		ctive equipment. g advice (see section 7) and personal pro- ecommendations (see section 8).
	Enviror	mental precautions	:		e environment. kage or spillage if safe to do so. 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.
containment and cleaning up		For large spills, provide dyking or other appropriate contain-

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Version 3.0	Revision Date: 28.09.2024		DS Number: 0842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
			be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. 15 of this SDS provide information regarding hational requirements.
7. HANDL	ING AND STORAGE			
Tech	nical measures	:	See Engineering	measures under EXPOSURE

	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 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 as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labelled containers. Store locked up. Keep tightly closed.
Materials to avoid	 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Dibutyl phthalate	84-74-2	TWA	5 mg/m3	IN OEL
		TWA	5 mg/m3	ACGIH
Diazinon	333-41-5	TWA	0.1 mg/m3	IN OEL
	Further information	ation: Potential c	contribution to the ove	erall exposure
	by the cutaned	ous route includir	ng mucous membran	es and eye.
		TWA (Inhal-	0.01 mg/m3	ACGIH
		able fraction		
		and vapor)		

SAFETY DATA SHEET according to the Globally Harmonized System





Diazinon (9%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	28.09.2024	10842830-00006	Date of first issue: 26.08.2022

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
Componente		parameters	specimen	pling	concentra-	Duolo
				time	tion	
Diazinon	333-41-5	Acetylcho- linesterase	In red blood cells	End of shift	70 % of an individual's	ACGIH BEI
		activity	biood cells	Shint	baseline	DLI
		Butyrylcho-	In serum	End of	60 % of an	ACGIH
		linesterase	or plasma	shift	individual's	BEI
11		activity			baseline	
Engineering measures	tec qui All des pro Col are the me	hnologies to c ck connections engineering co sign and opera tect products, ntainment tech required to co compound to nt devices).	ontrol airborr s). ontrols should ted in accord workers, and nologies sui ontrol at sour uncontrolled	te concent d be imple dance with d the enviro table for co ce and to p	d manufacturir rations (e.g., d mented by faci GMP principle onment. ontrolling comp prevent migrati g., open-face c	rip-less lity es to pounds on of
		nimize open ha	andling.			
Personal protective equ	•			.,		
Respiratory protection	sur om	e assessment mended guide	demonstrate lines, use re	es exposur spiratory p		
Filter type Hand protection	. Co	mbined particu		yanic vapu	ur type	
Material	: Che	emical-resista	nt gloves			
Remarks		nsider double				
Eye protection	lf th mis We pot	sts or aerosols ar a faceshiel	nment or act , wear the ap d or other full	ivity involv propriate (face prote	es dusty condi	sa
Skin and body protection	Ado bei suit Use	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.		posable		
Hygiene measures	: If e flus pla Wh Cor wor Wa The eng	xposure to che shing systems ce. len using do n ntaminated wo rkplace. lsh contaminate e effective ope gineering conti	emical is like and safety s ot eat, drink o ork clothing s ted clothing k ration of a fa rols, proper p	howers clo or smoke. hould not b pefore re-u cility shoul ersonal pr	rpical use, prov se to the work be allowed out se. d include revie otective equipr ation procedure	of the ew of ment,

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	28.09.2024	10842830-00006	Date of first issue: 26.08.2022

industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear, yellow, orange
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
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

ersion 0	Revision Date: 28.09.2024	-	S Number: 342830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022			
Ovidi	ing properties			ar mixture is not clossified as svidizing			
Oxidiz	zing properties	•	The substance	or mixture is not classified as oxidizing.			
Molec	ular weight	:	: No data available				
	le characteristics le size	:	: Not applicable				
. STABI	LITY AND REACTIVIT	Ϋ́					
	ivity ical stability bility of hazardous reac	: : :	Stable under no	s a reactivity hazard. rmal conditions. strong oxidizing agents.			
Incom	tions to avoid patible materials dous decomposition cts	:	 None known. Oxidizing agents No hazardous decomposition products are known. 				
. TOXIC	OLOGICAL INFORMA						
	nation on likely routes o sure	of :	Inhalation Skin contact Ingestion Eye contact				
Inform expos Acute	-		Skin contact Ingestion				
Inform expos Acute	e toxicity be harmful if swallowed.		Skin contact Ingestion				
Inform expose Acute May b <u>Produ</u>	e toxicity be harmful if swallowed.		Skin contact Ingestion Eye contact	timate: 3,588 mg/kg tion method			
Inform expose Acute May b <u>Produ</u> Acute	sure • toxicity be harmful if swallowed. <u>Jct:</u>		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg			
Inform expose Acute May b Acute Acute	e toxicity be harmful if swallowed. <u>uct:</u> oral toxicity		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula Acute toxicity es	tion method timate: > 5,000 mg/kg			
Inform expose Acute May b Acute Acute Acute	e toxicity be harmful if swallowed. <u>uct:</u> oral toxicity dermal toxicity		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula Acute toxicity es	tion method timate: > 5,000 mg/kg tion method			
Inform expose Acute May b Acute Acute Acute	e toxicity be harmful if swallowed. <u>uct:</u> oral toxicity dermal toxicity <u>ponents:</u> yl phthalate: oral toxicity		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg tion method			
Inform expose Acute May b Acute Acute Dibut Acute	e toxicity be harmful if swallowed. <u>uct:</u> oral toxicity dermal toxicity <u>ponents:</u> yl phthalate: oral toxicity		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg tion method 9 mg/kg			
Inform expose Acute May b Acute Acute Dibut Acute Diazin Acute	e toxicity be harmful if swallowed. <u>uct:</u> oral toxicity dermal toxicity <u>ponents:</u> yl phthalate: oral toxicity		Skin contact Ingestion Eye contact Acute toxicity es Method: Calcula Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg tion method 9 mg/kg 9 mg/kg 437 mg/l			

Calcium dodecylbenzenesulphonate:

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

rsion)	Revision Date: 28.09.2024	SDS Number 10842830-00	
Acute	oral toxicity	Method: (it): > 500 - 2,000 mg/kg DECD Test Guideline 401 : Based on data from similar materials
Acute	dermal toxicity	Method: (ibbit): > 2,000 mg/kg DECD Test Guideline 402 : Based on data from similar materials
Oxira	ne, 2-methyl-, polyr	ner with oxirane	, mono(nonylphenyl) ether:
Acute	oral toxicity	: LD50 (Ra	tt): > 4,000 mg/kg
Acute	dermal toxicity	: LD50 (Ra	at): > 5,000 mg/kg
Alcoh	ols, C12-15, ethoxy	lated:	
	oral toxicity	: LD50 (Ra	it): 1,700 mg/kg : Based on data from similar materials
Acute	dermal toxicity		it): > 2,000 mg/kg : Based on data from similar materials
11 7-0x2	abicyclo[4 1 0]hept-	3-vlmethvl 7-oxa	bicyclo[4.1.0]heptane-3-carboxylate:
	oral toxicity	: LD50 (Ra	nt, male): > 2,959 - 5,000 mg/kg DECD Test Guideline 401
Acute	inhalation toxicity	Exposure Test atmo Method: (osphere: dust/mist DECD Test Guideline 436
		Assessm tion toxici	ent: The substance or mixture has no acute inhala- ty
Acute	dermal toxicity	tion toxici : LD50 (Ra Method: (
4-[(1,		tion toxici : LD50 (Ra Method: (Assessm toxicity 5-oxo-1-phenyl-	ty it): > 2,000 mg/kg DECD Test Guideline 402
4-[(1,4 methy	5-Dihydro-3-methyl	tion toxici : LD50 (Ra Method: (Assessm toxicity 5-oxo-1-phenyl- zol-3-one:	ty it): > 2,000 mg/kg DECD Test Guideline 402 ent: The substance or mixture has no acute dermal
4-[(1, methy Acute	5-Dihydro-3-methyl yl-2-phenyl-3H-pyra	tion toxici : LD50 (Ra Method: (Assessm toxicity 5-oxo-1-phenyl- zol-3-one: : LD50 (Ra : LC50 (Ra Exposure	ty ht): > 2,000 mg/kg DECD Test Guideline 402 ent: The substance or mixture has no acute dermal 4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5- ht): > 5,000 mg/kg ht): > 7.39 mg/l

Skin corrosion/irritation

Causes mild skin irritation.

Result

Remarks

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

ersion 0	Revision Date: 28.09.2024		umber: 330-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022	
Com	ponents:				
	-				
	tyl phthalate:	. Do	b b :4		
Spec Meth		: Ra	CD Test Gui	deline 404	
Resu			skin irritation		
Diazi	non:				
Spec			bbit		
Resu	llt	: Mil	d skin irritatio	'n	
	ium dodecylbenzene	sulphona	te:		
Spec			bbit		
Meth Resu			CD Test Gui	deline 404	
Rema				rom similar materials	
		. Du			
	hols, C12-15, ethoxy				
Spec			bbit		
Meth Resu			CD Test Gui		
Rema			No skin irritation Based on data from similar materials		
			-	o[4.1.0]heptane-3-carboxylate:	
Spec Meth			bbit CD Test Gui	deline 404	
Resu			skin irritation		
	yl-2-phenyl-3H-pyraz	z ol-3-one: : Ra	bbit	azol-4-ylidene)methyl]-2,4-dihydro-5-	
Resu	llt	: No	skin irritation	I	
Caus	ous eye damage/eye ses serious eye damag				
	ponents:				
	tyl phthalate:				
Spec			bbit	deline 105	
Meth Resu			CD Test Gui		
Tresu	in and the second se	. 110	eye irritation		
Calci	ium dodecylbenzene	sulphona	te:		
Spec			: Rabbit		
Meth			CD Test Gui		
Ragi	ult .	• Irr/	wareibla offar	ate on the ave	

: Irreversible effects on the eye

: Based on data from similar materials

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	28.09.2024	10842830-00006	Date of first issue: 26.08.2022

Alcohols, C12-15, ethoxylated:

Species Result Remarks	:	Rabbit
Result	:	Irreversible effects on the eye
Remarks	:	Based on data from similar materials

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

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

4-[(1,5-Dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Dibutyl phthalate:

)6
)

Diazinon:

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

Calcium dodecylbenzenesulphonate:

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

Alcohols, C12-15, ethoxylated:

Test Type Exposure routes Species	:	Magnusson-Kligman-Test
Exposure routes	:	Skin contact
Species	:	Guinea pig

according to the Globally Harmonized System



ersion .0	Revision Date: 28.09.2024		Number: 2830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022					
Resul Rema			: negative : Based on data from similar materials						
7-Oxa	abicyclo[4.1.0]hept-3	3-ylmethy	/I 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:					
Test	Гуре	: M	aximisation Te						
	sure routes		kin contact						
Speci Resul			uinea pig ositive						
Asses	ssment	: P	robability or ev	vidence of skin sensitisation in humans					
	5-Dihydro-3-methyl- yl-2-phenyl-3H-pyra:			razol-4-ylidene)methyl]-2,4-dihydro-5-					
Speci			uinea pig						
Resu			egative						
	Dibutyl phthalate: Genotoxicity in vitro		esult: negative	omosome aberration test in vitro e d on data from similar materials					
<u>Components:</u> Dibutyl phthalate: Genotoxicity in vitro									
			est Type: In vi esult: positive	ro mammalian cell gene mutation test					
Geno	Genotoxicity in vivo		Test Type: Mammalian erythrocyte micronucleus te cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative						
	cell mutagenicity - ssment		/eight of evide ell mutagen.	nce does not support classification as a ger					
Diazi	non:								
		· т							
Geno	toxicity in vitro		est Type: Bact esult: negative	erial reverse mutation assay (AMES)					
Geno	toxicity in vitro	R Te	esult: negative	ro mammalian cell gene mutation test					
Geno	toxicity in vitro	R Te R Te	esult: negative est Type: In vi esult: negative	e tro mammalian cell gene mutation test e omosome aberration test in vitro					
	toxicity in vitro	R Tr R Tr R C S S	esult: negative est Type: In vir esult: negative est Type: Chro esult: negative est Type: Man ytogenetic ass pecies: Rat	e ro mammalian cell gene mutation test pmosome aberration test in vitro malian erythrocyte micronucleus test (in viv					

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024	SDS Number: 10842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022							
		Result: positive								
	n cell mutagenicity - ssment	: Positive result genicity tests.	(s) from in vivo mammalian somatic cell muta-							
Calci	Calcium dodecylbenzenesulphonate:									
Geno	toxicity in vitro	Method: OECI Result: negative	cterial reverse mutation assay (AMES) D Test Guideline 471 /e ed on data from similar materials							
		Result: negativ	vitro mammalian cell gene mutation test ve ed on data from similar materials							
		Method: OECI Result: negative	romosome aberration test in vitro D Test Guideline 473 /e ed on data from similar materials							
Geno	otoxicity in vivo	cytogenetic as Species: Mous Application Ro Result: negativ	se fute: Ingestion							
II Alcol	hols, C12-15, ethoxylat	ted:								
Geno	otoxicity in vitro	Result: negativ	cterial reverse mutation assay (AMES) /e ed on data from similar materials							
	abiovala[4 1 0]bant 2 y	umothyl 7 oxobioy	clo[4.1.0]heptane-3-carboxylate:							
	otoxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471							
		Test Type: In v Result: positive	vitro mammalian cell gene mutation test e							
		Test Type: In v malian cells Result: positive	vitro sister chromatid exchange assay in mam- e							
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e							
Geno	otoxicity in vivo	: Test Type: Un mammalian liv Species: Rat Application Ro								

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024		DS Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
			Method: OECD T Result: negative	est Guideline 486
			Test Type: Micro	nucleus test
			Species: Mouse Application Route Result: negative	e: Intraperitoneal injection
			say Species: Mouse Application Route	genic rodent somatic cell gene mutation as- e: Ingestion Test Guideline 488
			Result: positive	
	n cell mutagenicity - ssment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
II Carc	inogenicity			
	cause cancer.			
<u>Com</u>	ponents:			
Diaz	inon:			
Spec		:	Rat	
Appli Expc	ication Route	:	Ingestion 104 weeks	
Resu		:	negative	
Carc ment	inogenicity - Assess-	:	Sufficient evidend	ce of carcinogenicity in animal experiments
7-Ox	abicyclo[4.1.0]hept-3-y	ylme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Spec		:	Mouse	
Appii Expc	ication Route	:	Skin contact 29 Months	
Resu		:	negative	
Ronr	oductive toxicity			
-	damage the unborn chil	d. Si	uspected of damag	ina fertility.
-	ponents:			
	tyl phthalate:			
	ts on fertility	:	Test Type: Two-g Species: Rat	generation study
			Application Route Result: positive	e: Ingestion
Effect	ts on foetal develop-	:	Test Type: Devel Species: Rat	opment
			Application Route Result: positive	e: Ingestion

according to the Globally Harmonized System



ersion	Revision Date: 28.09.2024	SDS Number: 10842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
Repression	oductive toxicity - As- nent	animal expe	ce of adverse effects on development, based on iments., Some evidence of adverse effects on on and fertility, based on animal experiments.
Diazi	non:		
Effec	ts on fertility	Species: Rat	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Rat	Route: Ingestion
•• Calci	ium dodecylbenzenes	ulnhonate	
	ts on fertility	: Test Type: C reproduction Species: Rat Application F Method: OEC Result: nega	Route: Ingestion CD Test Guideline 422
Effec ment	ts on foetal develop-	reproduction Species: Rat Application F Method: OE0 Result: nega	Route: Ingestion CD Test Guideline 422
II 			
	ts on foetal develop-	: Test Type: E Species: Rat Application F	Route: Ingestion CD Test Guideline 414
	,5-Dihydro-3-methyl-5- yl-2-phenyl-3H-pyrazo		pyrazol-4-ylidene)methyl]-2,4-dihydro-5-
	ts on fertility	: Test Type: C reproduction Species: Rat Application F	Route: Ingestion CD Test Guideline 422
Effec ment	ts on foetal develop-		combined repeated dose toxicity study with the /developmental toxicity screening test

according to the Globally Harmonized System



/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 10842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
	20.00.2024	10042030 00000	Date of mist 13500. 20.00.2022
			Route: Ingestion CD Test Guideline 422 ive
	Reproductive toxicity - As- : sessment		nce of adverse effects on sexual function and d on animal experiments., Some evidence of cts on development, based on animal experi-
	- single exposure		A
-	ause damage to organ	s (Nervous system)).
Com	oonents:		
Diazi	non:		
Targe	sure routes et Organs ssment		tem oduce significant health effects in animals at con- f 300 mg/kg bw or less.
	- repeated exposure assified based on avai	able information.	
Com	oonents:		
Diazi	non:		
Expos Targe	sure routes et Organs esment		tem oduce significant health effects in animals at con- if >10 to 100 mg/kg bw.
Calci	um dodecylbenzenes	ulphonate:	
	•	: No significan	t health effects observed in animals at concentra mg/kg bw or less.
7-Oxa	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabic	yclo[4.1.0]heptane-3-carboxylate:
Expos	sure routes	: Ingestion	
	et Organs ssment		oduce significant health effects in animals at con- f >10 to 100 mg/kg bw.
Repe	ated dose toxicity		
Com	oonents:		
Dibut	yl phthalate:		
	EL	: Rat : 152 mg/kg : 752 mg/kg : Ingestion : 90 Days	
Metho			Guideline 408
		16 /	25

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

ersion 0	Revision Date: 28.09.2024		OS Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
Speci NOAI Applie		:	Rat 0.51 mg/l inhalation (dust/r	mist/fume)
	sure time	:	4 Weeks OECD Test Guid	
Diazi	non:			
Spec		:	Rat	
NOA		:	0.3 mg/kg	
LOAE		:	15 mg/kg	
	cation Route sure time	-	Ingestion	
Expo	sure ume	•	90 Days	
Spec	ies	:	Rat	
NOA	EL	:	0.1 mg/l	
LOAE		:	0.75 mg/l	
	cation Route sure time	:	inhalation (dust/r 28 Days	mist/fume)
Spec		esulph :	Rat	
LOAE		:	> 200 mg/kg	
	cation Route	:	Ingestion	
	sure time	:	6 - 7 Weeks	deline 400
Metho Rema		:	OECD Test Guid Based on data fr	rom similar materials
Spec	ies	:	Rabbit	
NOA		:	> 100 mg/kg	
	cation Route	:	Skin contact	
	sure time	•	28 Days	
Metho Rema		:	OECD Test Guid Based on data fr	rom similar materials
7-0x	abicyclo[4.1.0]hept-3	3-ylme	thyl 7-oxabicyclo	o[4.1.0]heptane-3-carboxylate:
Spec	ies	:	Rat	
NOAI		:	5 mg/kg	
LOAE		:	50 mg/kg	
Appli	cation Route	:	Ingestion	
	sure time	:	90 Days	Jolina 409
Meth	Ju	:	OECD Test Guid	
۵enii	ration toxicity			
-	lassified based on ava	ailahlo	information	
Expe	rience with human e	exposi	ire	

Experience with human exposure

Components:

Diazinon:

according to the Globally Harmonized System



Version 3.0	Revision Date: 28.09.2024		98 Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
Inha	lation	:	Symptoms: carcir	nogenic effects
12. ECO	LOGICAL INFORMATION	١		
Eco	toxicity			
<u>Con</u>	nponents:			
Dibu	utyl phthalate:			
Тохі	city to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.48 mg/l 5 h
	city to daphnia and other atic invertebrates	:	EC50 (Mysidopsis Exposure time: 96	s bahia (opossum shrimp)): 0.5 mg/l 5 h
Toxi plan	city to algae/aquatic ts	:	EC50(Pseudokir mg/l Exposure time: 10	rchneriella subcapitata (green algae)): 0.75) d
			NOEC(Pseudok mg/l Exposure time: 10	irchneriella subcapitata (green algae)): 0.39) d
M-F icity)	actor (Acute aquatic tox-)	:	1	
Тохі	city to microorganisms	•	Exposure time: 30	onas putida): >= 10 mg/l) min city at the limit of solubility
Toxi icity)	city to fish (Chronic tox-)	:	Exposure time: 99	d nchus mykiss (rainbow trout)
II Diaz	zinon:			
	city to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.09 mg/l ን h
	city to daphnia and other atic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 0.000164 mg/l 3 h
M-Faicity)	actor (Acute aquatic tox-	:	1,000	
Toxi icity)	city to fish (Chronic tox-)	:	NOEC: 0.092 mg/ Exposure time: 34 Species: Pimepha	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Exposure time: 27	
M-F	actor (Chronic aquatic	:	100	

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

rsion)	Revision Date: 28.09.2024		0S Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022		
toxicit	ty)					
Calci	um dodecylbenzenesu	lph	onate:			
	ity to fish	:	LC50 (Leuciscus Exposure time: 9	s idus (Golden orfe)): > 1 - 10 mg/l 96 h I on data from similar materials		
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): > 1 - 10 mg/l 48 h I on data from similar materials		
Toxic plants	ity to algae/aquatic	:	100 mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): > 10 72 h I on data from similar materials		
			- 1 mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): > 0.1 72 h I on data from similar materials		
Toxic	ity to microorganisms	:	Exposure time: 3 Method: OECD	sludge): > 100 mg/l 3 h Test Guideline 209 I on data from similar materials		
Toxic icity)	ity to fish (Chronic tox-	:	 NOEC: > 0.1 - 1 mg/l Exposure time: 28 d Species: Pimephales promelas (fathead minnow) Remarks: Based on data from similar materials 			
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2 Species: Daphni	21 d a magna (Water flea) I on data from similar materials		
Oxira	ine, 2-methyl-, polymer	· wit	h oxirane, mono	(nonylphenyl) ether:		
	ity to fish	:	LC50 (Pimephal Exposure time: 9	es promelas (fathead minnow)): > 0.1 - 1 mg/		
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Method: ISO 634			
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphido 1 mg/l	ocelis subcapitata (freshwater green alga)): >		

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): >

according to the Globally Harmonized System



Versio 3.0	on	Revision Date: 28.09.2024		9S Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
				1 mg/l Exposure time: 72 Method: OECD Te Remarks: Based o	
	M-Facto city)	or (Acute aquatic tox-	:	1	
Г	Toxicity	to microorganisms	:	Exposure time: 3 Method: OECD Te	h
	Toxicity city)	to fish (Chronic tox-	:		
a		to daphnia and other invertebrates (Chron- y)	:		
	M-Facto oxicity)	or (Chronic aquatic	:	10	
, ,	Alcoho	ls, C12-15, ethoxylate	ed:		
	Foxicity	· · · ·	:	Exposure time: 96	(zebra fish)): > 1 - 10 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l h on data from similar materials
	Toxicity plants	to algae/aquatic	:	10 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 1 - ? h on data from similar materials
a		to daphnia and other invertebrates (Chron- y)	:	Exposure time: 21 Species: Daphnia	
	7-Oxab i Toxicity		me :		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

ersion)	Revision Date: 28.09.2024		DS Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022	
11					
Toxicity to algae/aquatic plants		:	110 mg/l Exposure time: 7	ocelis subcapitata (freshwater green alga)): > 72 h Test Guideline 201	
			mg/l Exposure time: 7	ocelis subcapitata (freshwater green alga)): 30 72 h Test Guideline 201	
Toxic	ity to microorganisms	:	Exposure time: 3	sludge): 409 mg/l 3 h Test Guideline 209	
	5-Dihydro-3-methyl-5- yl-2-phenyl-3H-pyrazo			azol-4-ylidene)methyl]-2,4-dihydro-5-	
Toxic	ity to fish	:	 LC50 (Danio rerio (zebra fish)): 22.7 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility 		
	ity to daphnia and other ic invertebrates	r:	Exposure time: 4 Method: OECD	magna (Water flea)): > 0.407 mg/l ł8 h Test Guideline 202 kicity at the limit of solubility	
Tovic	ity to algae/aquatic		EL 50 (Pseudoki	irchneriella subcanitata (green algae)): > 1	

Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
		EL10 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209

Persistence and degradability

Components:

Dibutyl phthalate:

Biodegradability	: Result: Readily biode Biodegradation: 81 9	•
Biodegradability	Exposure time: 28 d Method: CO2 Evoluti	

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

ersion Revision 28.09.20		SDS Number: 0842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
Calcium dodecy	lbenzenesulp		
Biodegradability	:	Result: Readily b Remarks: Based	iodegradable. on data from similar materials
Oxirane, 2-meth	yl-, polymer w	/ith oxirane, mono((nonylphenyl) ether:
Biodegradability	:	Result: Not readil Remarks: Based	ly biodegradable. on data from similar materials
Alcohols, C12-1	5, ethoxylated	I:	
Biodegradability	:	Result: rapidly de Remarks: Based	egradable on data from similar materials
7-Oxabicyclo[4.	1.0]hept-3-ylm	ethyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Biodegradability	:	Result: Not readil Biodegradation: Exposure time: 20	ly biodegradable. 71 %
			est Guideline 301B
4-[(1,5-Dihydro- methyl-2-pheny			zol-4-ylidene)methyl]-2,4-dihydro-5-
Biodegradability	:	Result: Not readil Biodegradation: Exposure time: 24 Method: OECD T	0%
II Bioaccumulativ	e potential		
Components:			
Dibutyl phthalat	e:		
Partition coefficie octanol/water		: log Pow: 4.46	
Diazinon:			
Bioaccumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 46.9
Partition coefficie octanol/water	ent: n-	: log Pow: 3.69	
Calcium dodecy	lbenzenesulp	honate:	
Bioaccumulation	:		factor (BCF): < 500 on data from similar materials

Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether:

according to the Globally Harmonized System



/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 10842830-0000	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
	ion coefficient: n- ol/water	: log Pow: < 4 Remarks: Ca	
7-0xa	abicyclo[4.1.0]hept-3-y	/Imethyl 7-oxabic	yclo[4.1.0]heptane-3-carboxylate:
Partit	ion coefficient: n- ol/water	: log Pow: 1.3	
	5-Dihydro-3-methyl-5- yl-2-phenyl-3H-pyrazo		pyrazol-4-ylidene)methyl]-2,4-dihydro-5-
	ion coefficient: n- ol/water	: log Pow: 5.0	2
	lity in soil ata available		
	r adverse effects ata available		
3. DISPC	SAL CONSIDERATIO	NS	
-	osal methods e from residues		se of waste into sewer.
Conta	aminated packaging	: Empty conta dling site for	a accordance with local regulations. iners should be taken to an approved waste har recycling or disposal. ise specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION	1	
		-	
Interi	national Regulations		
UNR			
	umber er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, LIQUID
Class		· ·	Dibutyl phthalate)
Class Packi	ng group	: 9 : III	
Label		: 9	
Envir	onmentally hazardous	: yes	
	-DGR		
UN/IE		: UN 3082	
Class	er shipping name		ally hazardous substance, liquid, n.o.s. Dibutyl phthalate)
	ng group	:	
Label	S	: Miscellaneou	JS
aircra		: 964	
	ng instruction (passen- ircraft)	: 964	





Diazinon (9%) Liquid Formulation

Version 3.0	Revision Date: 28.09.2024		OS Number: 842830-00006	Date of last issue: 27.11.2023 Date of first issue: 26.08.2022
En	vironmentally hazardous	:	yes	
UN	DG-Code I number oper shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (Diazinon, Dibuty	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Cla	ISS	:	9	· ,
Pa	cking group	:	III	
Lab	pels	:	9	
Em	IS Code	:	F-A, S-F	
Ma	rine pollutant	:	yes	

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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

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

16. OTHER INFORMATION

Revision Date	:	28.09.2024
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 Agen- cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	dd.mm.yyyy	
Full text of other abbreviations			
ACGIH ACGIH BEI IN OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) India. Permissible levels of certain chemical substances in work environment.	

according to the Globally Harmonized System



Diazinon (9%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	28.09.2024	10842830-00006	Date of first issue: 26.08.2022

ACGIH / TWA	:	8-hour, time-weighted average	
IN OEL / TWA	:	Time-Weighted Average Concentration (TWA)	(8 hrs.)

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.

IN / EN