

Vers 2.5	sion	Revision Date: 21.11.2023		S Number: 314465-00007	Date of last issue: 30.09.2023 Date of first issue: 22.07.2022				
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION								
	Produc	t name	:	Diazinon (23.06%	%) Liquid Formulation				
	Other means of identification		:	COOPERS DIAZINON SHEEP BLOWFLY DRESSING A CATTLE, GOAT AND PIG SPRAY (62353)					
	Manufa	acturer or supplier's o	detai	ils					
	Company		:	MSD					
	Address		:	Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340					
	Teleph	one	:	908-740-4000					
	Emerge	ency telephone	:	1-908-423-6000					
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com				
	Recom	mended use of the c	hem	ical and restriction	ons on use				
		mended use tions on use	:	Veterinary produ Not applicable	ict				

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

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral)	:	Category 4
Skin irritation	:	Category 3
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1
Germ cell mutagenicity	:	Category 2
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



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Short hazar	-term (acute) aquatic d	: Category 1	
Long- hazar	-term (chronic) aquatic d	: Category 1	
	label elements in acco rd pictograms	ordance with ABNT	NBR 14725 Standard
Signa	l Word	: Danger	
Haza	rd Statements	H316 Causes H317 May cau H318 Causes H336 May cau H341 Suspec H350 May cau H370 Causes H373 May cau prolonged or u	fatal if swallowed and enters airways. mild skin irritation. use an allergic skin reaction. serious eye damage. use drowsiness or dizziness. ted of causing genetic defects.
Preca	autionary Statements	P273 Avoid re	special instructions before use. lease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		Response:	
		P305 + P351 water for seve and easy to d CENTER/ doo	IF exposed or concerned: Call a POISON tor.

Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Hydrocarbons, C10, aromat-	64742-94-5	Flammable liquids,	>= 50 -< 70
ics, <1% naphthalene		Category 4	



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			Specific target organ toxicity - single expo- sure, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 2	
Diazir	non	333-41-5	Acute toxicity (Oral), Category 4 Acute toxicity (Der- mal), Category 5 Skin irritation, Category 3 Germ cell mutagenici- ty, Category 2 Carcinogenicity, Category 1B Specific target organ toxicity - single expo- sure (Nervous sys- tem), Category 1 Specific target organ toxicity - repeated exposure (Nervous system), Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 20 -< 25
Calciu phona	um dodecylbenzenesul- ate	26264-06-2	Acute toxicity (Oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 3	>= 5 -< 10
Nony	Iphenol, ethoxylated	9016-45-9	Acute toxicity (Oral), Category 4 Serious eye damage, Category 1 Short-term (acute)	>= 5 -< 10



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			aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	
ylmet oxabi	abicyclo[4.1.0]hept-3- hyl 7- icyclo[4.1.0]heptane-3- oxylate	2386-87-0	Acute toxicity (Oral), Category 5 Skin sensitization, Category 1 Germ cell mutagenici- ty, Category 2 Specific target organ toxicity - repeated exposure (nasal cavi- ty), Category 2 Short-term (acute) aquatic hazard, Category 3 Long-term (chronic) aquatic hazard, Category 3	>= 2,5 -< 5

### SECTION 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. If vomiting occurs have person lean forward. Call a physician or poison control center 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 mild skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of causing genetic defects.

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### **Diazinon (23.06%) Liquid Formulation**

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Protection of first-aiders	<ul> <li>May cause cancer.</li> <li>Causes damage to organs.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Prolonged or repeated contact may dry skin and cause irritation.</li> <li>First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment</li> </ul>
Notes to physician	<ul><li>when the potential for exposure exists (see section 8).</li><li>Treat symptomatically and supportively.</li></ul>
SECTION 5. FIRE-FIGHTING	NEASURES
Suitable extinguishing me	lia : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: None known.
Specific hazards during fil fighting	e : Exposure to combustion products may be a hazard to health.
Hazardous combustion pr ucts	d- : Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus Metal oxides Sulfur compounds
Specific extinguishing me ods	<ul> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe to do so.</li> <li>Evacuate area.</li> </ul>
Special protective equipm for fire-fighters	
SECTION 6. ACCIDENTAL R	LEASE MEASURES
Personal precautions, pro tive equipment and emer- gency procedures	<ul> <li>ec- : Use personal protective equipment.</li> <li>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).</li> </ul>
Environmental precaution	<ul> <li>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.</li> </ul>
Methods and materials fo containment and cleaning	: Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate



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		absorbent. Local or nation disposal of this employed in th determine whic Sections 13 an	ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to th regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ver ventilation.	tilation is unavailable, use with local exhaust
	e on safe handling	: Do not get on s Do not breathe Do not swallow Do not get in e Wash skin thor Handle in acco practice, based assessment Keep contained Do not eat, drin Take care to pu environment.	mist or vapors. y. yes. oughly after handling. rdance with good industrial hygiene and safety d on the results of the workplace exposure
		flushing system place. When using do Contaminated workplace. Wash contamin The effective o engineering co appropriate de industrial hygie use of adminis	ns 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. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, one monitoring, medical surveillance and the trative controls.
Cond	itions for safe storage	Store locked u Keep tightly clo Keep in a cool,	
Mate	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: g agents ubstances and mixtures



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	TWA (Inhalable particulate matter)	5 mg/m³	ACGIH
Diazinon	333-41-5	TWA (Inhalable fraction and vapor)	0,01 mg/m <sup>3</sup>	ACGIH

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

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Diazinon	333-41-5	erythrocyte acetylcholin esterase activity		End of workday	70 % of baseline	BR BEI
		butyl cholinestera se activity	plasma or serum	End of workday	60 % of baseline	BR BEI
		Acetylcholin esterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholi nesterase 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 containment devices). Minimize open handling.
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#### Personal protective equipment

Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type
Material	:	Chemical-resistant gloves



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	emarks rotection	If the work enviro mists or aerosols Wear a faceshie	uses with side shields or goggles. Conment or activity involves dusty conditions, s, wear the appropriate goggles. Id or other full face protection if there is a
Skin a	and body protection	aerosols. Work uniform or Additional body task being perfor disposable suits	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, ) to avoid exposed skin surfaces. degowning techniques to remove potentially

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, yellow
Odor	:	characteristic
Odor 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
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		



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	Water solubility	:	No data available	e
	rtition coefficient: n- anol/water	:	Not applicable	
	oignition temperature	:	No data available	9
De	composition temperature	:	No data available	e
	cosity Viscosity, kinematic	:	No data available	e
Exp	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	lecular weight	:	No data available	9
Pa	rticle 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

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1.808 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Components:		

### Hydrocarbons, C10, aromatics, <1% naphthalene:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
		Method: OECD Test Guideline 420

### SAFETY DATA SHEET



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			Remarks: Based	on data from similar materials
Acut	e inhalation toxicity	:		h
Acut	te dermal toxicity	:	toxicity	
Diaz	inon:			
Acut	e oral toxicity	:	LD50 (Rat): 1.139	) mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5,4 Exposure time: 4 Test atmosphere:	h
Acut	e dermal toxicity	:	LD50 (Rabbit): > 2	2.020 mg/kg
Calc	ium dodecylbenzenes	ulph	onate:	
	te oral toxicity	•	LD50 (Rat): > 500 Method: OECD T	
Acut	e dermal toxicity	:	LD50 (Rabbit): > 2 Method: OECD T Remarks: Based	
Non	ylphenol, ethoxylated:			
	te oral toxicity	:	LD50 (Rat): 500 -	2.000 mg/kg
7-0)	kabicyclo[4.1.0]hept-3-y	/lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Acut	e oral toxicity	:	LD50 (Rat, male) Method: OECD T	: > 2.959 - 5.000 mg/kg est Guideline 401
Acut	e inhalation toxicity	:	LC50 (Rat): >= 5, Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity	h dust/mist
Acut	e dermal toxicity	:	LD50 (Rat): > 2.0 Method: OECD T Assessment: The toxicity	



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Caus	corrosion/irritation es mild skin irritation. ponents:		
Hvdr	ocarbons, C10, arom	atics. <1% naphthal	ene:
-	ssment	•	osure may cause skin dryness or cracking.
Diazi	non:		
Speci Resu		: Rabbit : Mild skin irritat	ion
Calci	um dodecylbenzene:	sulphonate:	
Speci		: Rabbit	
Metho Resu		: OECD Test G : Skin irritation	uideline 404
Rema			from similar materials
-	Iphenol, ethoxylated	:	
Speci		: Rabbit	
Metho Resu		: OECD Test G : No skin irritatio	
7-0xa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho Resu		: OECD Test G : No skin irritatio	
Serio	ous eye damage/eye i	rritation	
	es serious eye damag ponents:	е.	
	ocarbons, C10, arom	atics, <1% naphthal	ene:
Speci		: Rabbit	
Resu		: No eye irritatio	
Rema	arks	: Based on data	r from similar materials
	um dodecylbenzene:	•	
Speci Resu		: Rabbit	ects on the eye
Metho		: OECD Test G	
Rema			from similar materials
Nony	Iphenol, ethoxylated	:	
Speci		: Rabbit	
Resu Metho		: Irreversible eff : OECD Test G	ects on the eye
weuk			





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7-0xa	abicyclo[4.1.0]hept	-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
Speci	ies	: Rabbit
Resu		: No eye irritation
Metho	bd	: OECD Test Guideline 405
Resp	iratory or skin sen	sitization
Skin	sensitization	
May o	cause an allergic ski	n reaction.
Resp	iratory sensitizatio	n
Not c	lassified based on a	vailable information.
<u>Com</u>	ponents:	
Hydro	ocarbons, C10, aro	matics, <1% naphthalene:
Test		: Maximization Test
	es of exposure	: Skin contact
Speci Resu		: Guinea pig : negative
Rema		: Based on data from similar materials
Diazi	non:	
Test <sup>-</sup>	Tvpe	: Buehler Test
	es of exposure	: Skin contact
Speci		: Guinea pig
Resu	lt	: negative
Calci	um dodecylbenzen	esulphonate:
Test		: Maximization Test
	es of exposure	: Skin contact
Speci		: Guinea pig
Metho Resu		: OECD Test Guideline 406 : negative
Rema		: Based on data from similar materials
N		
Nony Test	r <b>lphenol, ethoxylate</b> Type	ea: : Maximization Test
	es of exposure	: Skin contact
Speci	ies	: Guinea pig
Resu		: negative
Rema	arks	: Based on data from similar materials
7-0xa	abicyclo[4.1.0]hept	-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
Test		: Maximization Test
	es of exposure	: Skin contact
Speci Resu		: Guinea pig : positive
Asses	ssment	: Probability or evidence of skin sensitization in hum
		10/04



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Suspe	cell mutagenicity ected of causing gene conents:	etic defects.	
Hvdro	carbons. C10. aron	natics, <1% naphthale	ne:
-	oxicity in vitro	: Test Type: In v malian cells Result: negativ	itro sister chromatid exchange assay in mar
Genot	oxicity in vivo	cytogenetic tes Species: Rat Application Rou Result: negative	agenicity (in vivo mammalian bone-marrow t, chromosomal analysis) ute: inhalation (vapor) e ed on data from similar materials
Diazir	ion:		
Genot	oxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: In vi Result: negativ	itro mammalian cell gene mutation test e
		Test Type: Chro Result: negative	omosome aberration test in vitro e
Genot	oxicity in vivo	cytogenetic ass Species: Rat	ute: Intraperitoneal injection
	cell mutagenicity - sment	: Positive result( mutagenicity te	s) from in vivo mammalian somatic cell sts.
Calciu	ım dodecylbenzene	sulphonato	
	oxicity in vitro	: Test Type: Bac Method: OECD Result: negative	eterial reverse mutation assay (AMES) Test Guideline 471 e ed on data from similar materials
		Result: negative	itro mammalian cell gene mutation test e ed on data from similar materials
		Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e ed on data from similar materials
Genot	oxicity in vivo	: Test Type: Mar cytogenetic ass	nmalian erythrocyte micronucleus test (in vi say)
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		Species: Mouse Application Rou Result: negative Remarks: Based	te: Ingestion
Nony	uphenol, ethoxylated	:	
Genc	toxicity in vitro	Result: negative	erial reverse mutation assay (AMES) d on data from similar materials
7-Ox	abicyclo[4.1.0]hept-3-	-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Geno	otoxicity in vitro		erial reverse mutation assay (AMES) Test Guideline 471
		Test Type: In vit Result: positive	ro mammalian cell gene mutation test
		Test Type: In vit malian cells Result: positive	ro sister chromatid exchange assay in mam-
			damage and repair, unscheduled DNA syn- alian cells (in vitro)
Genc	otoxicity in vivo	mammalian live Species: Rat Application Rou	te: Ingestion Test Guideline 486
		Test Type: Micro Species: Mouse Application Rou Result: negative	te: Intraperitoneal injection
		say Species: Mouse Application Rou	
	n cell mutagenicity - ssment	: Positive result(s mutagenicity tes	) from in vivo mammalian somatic cell sts.
Cara	inogonicity		

### Carcinogenicity

May cause cancer.



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<u>Comp</u>	onents:			
Diazin	ion:			
Specie	25	•	Rat	
•	ation Route	÷	Ingestion	
Expos	ure time	:	104 weeks	
Result	t	:	negative	
Carcin ment	ogenicity - Assess-	:	Sufficient eviden	ce of carcinogenicity in animal experiments
7-Oxa	bicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Specie		:	Mouse	
	ation Route	:	Skin contact	
-	ure time	÷	29 Months	
Result	L	•	negative	
Repro	ductive toxicity			
Not cla	assified based on availa	ble	information.	
<u>Comp</u>	onents:			
Hydro	carbons, C10, aromat	ics,	<1% naphthalen	e:
Effects	s on fertility	:	Test Type: Three	e-generation reproduction toxicity study
	-		Species: Rat	
				e: inhalation (vapor)
			Result: negative	and the foregoing the large standards
			Remarks: Based	on data from similar materials
Effects	s on fetal development	:		yo-fetal development
			Species: Rat	
			Application Rout	e: Ingestion
			Result: negative	an data fuana ainsilan mataniala
			Remarks: Based	on data from similar materials
Diazin	ion:			
Effects	s on fertility	:		e-generation study
			Species: Rat	
			Application Rout	e: Ingestion
			Result: negative	
Effects	s on fetal development	:		yo-fetal development
			Species: Rat	
			Application Rout	e: Ingestion
			Result: negative	
	ım dodecylbenzenesu	lph	onate:	
Calciu	s on fertility			pined repeated dose toxicity study with the
	Jon for they			elopmental toxicity screening test
	5 off forting			
	5 of rotality		Species: Rat	
	o on rorany		Species: Rat Application Rout	e: Ingestion
	o on rorany		Species: Rat Application Rout	



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			Remarks: Based	on data from similar materials
Effects	on fetal development	:	reproduction/deve Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422 on data from similar materials
7-Oxab	vicyclo[4.1.0]hept-3-y	/Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Effects	on fetal development	:	Species: Rat Application Route	vo-fetal development e: Ingestion est Guideline 414
STOT-	single exposure			
	use drowsiness or diz damage to organs (N			
<u>Compo</u>	onents:			
Hydroc	arbons, C10, aroma	tics,	<1% naphthalene	2:
Assess		:		iness or dizziness.
Remark	(S	:	Based on data fro	om similar materials
Diazino	on:			
Routes Target Assess	0	:		e significant health effects in animals at con- ) mg/kg bw or less.
STOT-I	epeated exposure			
		s (Ne	ervous system) thre	ough prolonged or repeated exposure.
Compo	onents:			
Diazino	on:			
	of exposure	:	Ingestion	
Target Assess	Organs ment	:		e significant health effects in animals at con- ) to 100 mg/kg bw.
			onate:	
Calciur	n dodecylbenzenesi	liph	onator	
<b>Calciu</b> Assess	-	ilph :		alth effects observed in animals at concentra- g bw or less.
Assess	ment	:	No significant hea tions of 100 mg/k	g bw or less.
Assess <b>7-Oxab</b>	ment icyclo[4.1.0]hept-3-y of exposure	:	No significant hea tions of 100 mg/k	



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Asses	ssment		duce significant health effects in animals at con >10 to 100 mg/kg bw.
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
Hydro	ocarbons, C10, aron	natics, <1% naphthal	ene:
Speci		: Rat	
NOAE		: 300 mg/kg	
	cation Route	: Ingestion	
	sure time	: 13 Weeks	
Rema	IIKS	Based on data	a from similar materials
Diazi	non:		
Speci		: Rat	
NOAE		: 0,3 mg/kg	
LOAE		: 15 mg/kg	
	cation Route	: Ingestion	
Expos	sure time	: 90 Days	
Speci		: Rat	
NOAE		: 0,1 mg/l	
LOAE		: 0,75 mg/l	-+/
	cation Route sure time	: inhalation (dus : 28 Days	somisolume)
Calci	um dodecylbenzene	sulnhonato:	
	•	•	
Speci LOAE		: Rat : > 200 mg/kg	
	cation Route	: Ingestion	
	sure time	: 6 - 7 Weeks	
Metho		: OECD Test G	uideline 422
Rema			a from similar materials
Speci	es	: Rabbit	
NOAE	EL	: > 100 mg/kg	
Applic	cation Route	: Skin contact	
	sure time	: 28 Days	
Metho		: OECD Test G	
Rema	arks	: Based on data	a from similar materials
7-Oxa	abicyclo[4.1.0]hept-	3-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Speci		: Rat	
NOAE		: 5 mg/kg	
LOAE		: 50 mg/kg	
Applic	cation Route	: Ingestion	
Expos	sure time	: 90 Days	
Metho	hd	: OECD Test G	uideline 408



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May b	ation toxicity be fatal if swallowed and	ent	ers airways.	
<u>Comp</u>	oonents:			
Hydro	ocarbons, C10, aromat	ics,	<1% naphthaler	ie:
	ubstance or mixture is k d as if it causes a huma			n aspiration toxicity hazards or has to be re- azard.
Expe	rience with human exp	osu	ire	
<u>Comp</u>	oonents:			
Diazir	non:			
Inhala	ation	:	Symptoms: carc	inogenic effects
ECTION	12. ECOLOGICAL INFO			
Ecoto	oxicity			
Comp	oonents:			
Hydro	ocarbons, C10, aromat	ics	<1% nanhthaler	1e.
	ity to fish	:	-	chus mykiss (rainbow trout)): 2 - 5 mg/l
			Exposure time: 9 Test substance: Method: OECD	
Toxici	ty to daphnia and other	:	EL50 (Daphnia r	nagna (Water flea)): 3 - 10 mg/l
aquat	ic invertebrates		Exposure time: 4	48 h Water Accommodated Fraction
				Test Guideline 202
			Remarks: Based	l on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l	rchneriella subcapitata (green algae)): > 1 - 3
			Exposure time: 7	72 h Water Accommodated Fraction
				Test Guideline 201
			Remarks: Based	l on data from similar materials
D::-				
Diazir Toxici	n <b>on:</b> ity to fish		LC50 (Oncorbyr	chus mykiss (rainbow trout)): 0,09 mg/l
		•	Exposure time: 9	
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodap Exposure time: 4	hnia dubia (water flea)): 0,000164 mg/l 18 h
	ctor (Acute aquatic tox-		1.000	
icity)		•		
	ty to fish (Chronic tox-	:	NOEC (Pimepha Exposure time: 3	ales promelas (fathead minnow)): 0,092 mg/l



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aquatio	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0,00017 mg/l 1 d
ic toxic M-Fact toxicity	tor (Chronic aquatic	:	100	
Calciu	m dodecylbenzenesu	lph	onate:	
Toxicit	y to fish	:	Exposure time: 9	idus (Golden orfe)): > 1 - 10 mg/l 6 h on data from similar materials
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): > 1 - 10 mg/l 8 h on data from similar materials
Toxicit plants	y to algae/aquatic	:	100 mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 10 - 2 h on data from similar materials
			1 mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 0,1 - 2 h on data from similar materials
Toxicit icity)	y to fish (Chronic tox-	:	mg/l Exposure time: 2	les promelas (fathead minnow)): > 0,1 - 1 8 d on data from similar materials
	y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 2	magna (Water flea)): > 1 mg/l 1 d on data from similar materials
Toxicit	y to microorganisms	:	Exposure time: 3 Method: OECD T	sludge): > 100 mg/l h est Guideline 209 on data from similar materials
Nonvli	phenol, ethoxylated:			
	y to fish	:	Exposure time: 9	es promelas (fathead minnow)): > 0,1 - 1 mg/l 6 h on data from similar materials
	y to daphnia and other c invertebrates	:	Exposure time: 4	nnia dubia (water flea)): > 0,1 - 1 mg/l 8 h on data from similar materials
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	rum capricornutum (green algae)): > 1 - 10 2 h ēst Guideline 201 on data from similar materials
			EC10 (Selenastro	um capricornutum (green algae)): > 1 mg/l



rsion	Revision Date: 21.11.2023	-	S Number: 814465-00007	Date of last issue: 30.09.2023 Date of first issue: 22.07.2022
			Exposure time: 72 Method: OECD Te Remarks: Based of	
M-Facto icity)	or (Acute aquatic tox-	:	1	
	to fish (Chronic tox-	:	Exposure time: 10	itipes (Japanese medaka)): > 0,1 - 1 mg/l 00 d on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials
M-Factor (Chronic aquatic toxicity)		:	10	
7-Oxab	icyclo[4.1.0]hept-3-yl	me	thyl 7-oxabicyclo[	[4.1.0]heptane-3-carboxylate:
Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoce 110 mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te	
Toxicity	to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
Persist	ence and degradabili	ty		
<u>Compo</u>	nents:			
Hydroc	arbons, C10, aromat	ics,	<1% naphthalene	:
Biodegr	adability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD Te	19,56 %
Calciur	n dodecylbenzenesu	lpho	onate:	
	adability	:	Result: Readily bi	odegradable. on data from similar materials



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Nony	/lphenol, ethoxylated	J:	
-	egradability	: Result: Not r	eadily biodegradable. sed on data from similar materials
7-0x	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabic	yclo[4.1.0]heptane-3-carboxylate:
	egradability	: Result: Not re Biodegradati Exposure tim	eadily biodegradable. on: 71 %
Bioa	ccumulative potentia	al	
Com	ponents:		
Diazi	non:		
Bioad	cumulation		orinus carpio (Carp) tion factor (BCF): 46,9
	ion coefficient: n- iol/water	: log Pow: 3,69	9
Calci	um dodecylbenzene	sulphonate:	
Bioac	cumulation		tion factor (BCF): < 500 sed on data from similar materials
	ion coefficient: n- ol/water	: log Pow: 4,7 Remarks: Ca	
Nony	lphenol, ethoxylated	d:	
Partit	ion coefficient: n- ol/water	: log Pow: 4,4	3
7-0x	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabic	yclo[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- iol/water	: log Pow: 1,3 Method: OE0	4 CD Test Guideline 107
	lity in soil		
	ata available		
	r adverse effects ata available		
ECTION	13. DISPOSAL CON	SIDERATIONS	
Disp	osal methods		
Wast	e from residues		se of waste into sewer.



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SECTION	14. TRANSPORT INFO	RMATION	
Interi	national Regulations		
	-		
	umber	: UN 3082	
-	er shipping name		ENTALLY HAZARDOUS SUBSTANCE, LIQUID
Class		: 9	
	ng group	:	
Label		: 9	
Envir	onmentally hazardous	: yes	
ΙΔΤΔ	-DGR		
UN/IE		: UN 3082	
	er shipping name		ally hazardous substance, liquid, n.o.s.
Class		: 9	
	ng group	: 111	
Label		: Miscellaneou	JS
aircra		: 964	
ger ai	ng instruction (passen- ircraft)	: 964	
Envir	onmentally hazardous	: yes	
IMDG	G-Code		
UN n	umber	: UN 3082	
Prope	er shipping name	: ENVIRONM N.O.S. (Diazinon)	ENTALLY HAZARDOUS SUBSTANCE, LIQUID
Class		: 9	
	ng group	: 111	
Label		: 9	
	Code	: F-A, S-F	
	e pollutant	: yes	

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

Not applicable for product as supplied.

### **Domestic regulation**

ANTT

UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diazinon)
Class	:	9
Packing group	:	III
Labels	:	9
Hazard Identification Number	:	90

### 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



### **Diazinon (23.06%) Liquid Formulation**

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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/legi mixture	slation specific for the substance or
National List of Carcinogenic Agents for Humans - (LINACH)	: Not applicable
Brazil. List of chemicals controlled by the Federal Police	: Not applicable

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

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

#### **SECTION 16. OTHER INFORMATION**

Revision Date Date format	:	21.11.2023 dd.mm.yyyy
Further information Sources of key data used to compile the Material 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/

#### Full text of other abbreviations

ACGIH ACGIH BEI BR BEI	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents

#### ACGIH / TWA : 8-hour, 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



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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 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.

BR / Z8