according to GB/T 16483 and GB/T 17519



Diazinon (47%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
2.0	2024/09/28	11292248-00003	Date of first issue: 2023/11/07

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Diazinon (47%) Liquid Formulation			
Manufacturer or supplier's de Company	etai :	i ls MSD			
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid No data available No data available
cause an allergic skin reaction. May cause genetic defects. Ma	. Ca ay c	I if swallowed and enters airways. Causes skin irritation. May auses serious eye irritation. May cause drowsiness or dizziness. ause cancer. Causes damage to organs. May cause damage to ated exposure. Very toxic to aquatic life with long lasting ef-
GHS Classification		
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B

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	ific target organ toxicity - e exposure	: Category 1	
	ific target organ toxicity - e exposure	: Category 3	
	ific target organ toxicity - ated exposure	: Category 2	
Aspir	ation hazard	: Category 1	
Shor haza	t-term (acute) aquatic rd	: Category 1	
Long haza	-term (chronic) aquatic rd	: Category 1	
	label elements ard pictograms		! 🕹
Signa	al word	: Danger	▼ ▼
Haza	rd statements	H315 Causes s H317 May cau H319 Causes s H336 May cau H340 May cau H350 May cau H370 Causes o H373 May cau peated exposu	atal if swallowed and enters airways. skin irritation. se an allergic skin reaction. serious eye irritation. se drowsiness or dizziness. se genetic defects. se cancer. damage to organs. se damage to organs through prolonged or re-
Preca	autionary statements	P202 Do not ha and understood P260 Do not b P264 Wash sk P270 Do not e P271 Use only P272 Contamin the workplace.	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. nated work clothing should not be allowed out

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

Physical and chemical hazards

Not classified based on available information.

Health hazards

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. Causes damage to organs. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Mixture

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

Components

Chemical name	CAS-No.
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Diazinon	333-41-5	>= 30 -< 50
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 20 -< 25
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 10 -< 20
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-	2386-87-0	>= 2.5 -< 10
oxabicyclo[4.1.0]heptane-3-carboxylate		

Alternative CAS Numbers for some regions

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

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	:	
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 irritation. 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 exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

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Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
Speci fightir	ific hazards during fire-	:	Exposure to com	oustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (Sulphur oxides Oxides of phosph	
Spec ods	Specific extinguishing meth- ods		cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
. ACCIDI	ENTAL RELEASE MEA	SUF	RES	
	onal precautions, protec- quipment and emer-	:		tective equipment. ling advice (see section 7) and personal pro-

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

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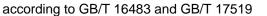
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				15 of this SDS provide information regarding ational requirements.
7. HAND	LING AND STORAGE			
Han	dling			
Tech	nnical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
Loca	al/Total ventilation	:		ation is unavailable, use with local exhaust
Advi	ce on safe handling	:	Do not get on sk Do not breathe n Do not swallow. Do not get in eye Wash skin thorou Handle in accord practice, based o sessment Keep container t Do not eat, drink	hist or vapours. es. ughly after handling. lance with good industrial hygiene and safety on the results of the workplace exposure as-
Avoi	dance of contact	:	Oxidizing agents	
Stor	-			
	ditions for safe storage erials to avoid	:	Store locked up. Keep tightly clos Keep in a cool, w Store in accorda	vell-ventilated place. nce with the particular national regulations. the following product types:
Pacl	kaging material	:	Unsuitable mate	rial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Diazinon	333-41-5	TWA (Inhal- able fraction and vapor)	0.01 mg/m3	ACGIH
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH





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Biological occupational exposure limits

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 Use appropriate engineering controls and manufacturing : technologies to control airborne concentrations (e.g., dripless 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.

Respiratory protection Filter type Eye/face protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection Hand protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Material	:	Chemical-resistant gloves
Remarks Hygiene measures	••••	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.

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The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available

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Deco	mposition temperature	: No data avai	lable
Visco Vi	sity scosity, kinematic	: No data avai	lable
Explo	sive properties	: Not explosive	e
Oxidi	zing properties	: The substan	ce or mixture is not classified as oxidizing.
Moleo	cular weight	: No data avai	lable
	le characteristics le size	: Not applicab	le
10. STAB	ILITY AND REACTIVIT	(
Possi tions Cond Incon	nical stability bility of hazardous reac- itions to avoid npatible materials rdous decomposition	 Stable under Can react with None known Oxidizing age 	
11. TOXIC	OLOGICAL INFORMA	ΓΙΟΝ	
Expo	sure routes	: Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.		
Prod	uct:		
Acute	e oral toxicity		estimate: 1,206 mg/kg ulation method
Acute	e dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Com	ponents:		
Diazi	non:		
Acute	oral toxicity	: LD50 (Rat): 1	,139 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosph	

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Acute	e dermal toxicity	: LD50 (Rabbit): >	> 2,020 mg/kg	
	ent naphtha (petrole			
Acute	oral toxicity	: LD50 (Rat): > 5	,000 mg/kg	
Acute	inhalation toxicity	Exposure time:	: LC50 (Rat): > 5.61 mg/l Exposure time: 4 h Test atmosphere: vapour	
Acute	e dermal toxicity	: LD50 (Rabbit): >	> 2,000 mg/kg	
4-Nor	nylphenol, branched	, ethoxylated:		
	oral toxicity	: LD50 (Rat): > 30	00 - 2,000 mg/kg d on data from similar materials	
Acute	e dermal toxicity	: LD50 (Rabbit): >	> 2,000 mg/kg	
7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:	
Acute	oral toxicity		e): > 2,959 - 5,000 mg/kg Test Guideline 401	
Acute	inhalation toxicity	Exposure time: Test atmospher Method: OECD	 LC50 (Rat): >= 5.19 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: The substance or mixture has no acute inhala tion toxicity 	
Acute	e dermal toxicity		000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma	
-	corrosion/irritation			
	es skin irritation. conents:			
Diazi				
Speci Resul	es	: Rabbit : Mild skin irritatic	n	
Solve	ent naphtha (petrole	um), light aromatic:		
Speci	es	: Rabbit		
Metho Resul		: OECD Test Gui : Skin irritation	deline 404	

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

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Solvent naphtha (petroleum), light aromatic:

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

4-Nonylphenol, branched, ethoxylated:

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

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

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

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Diazinon:

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

Solvent naphtha (petroleum), light aromatic:

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

4-Nonylphenol, branched, ethoxylated:

Test Type : Human repeat insult patch test (HRIPT)

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Expos Resul Rema		: Skin contact : negative : Based on data	from similar materials
7 0 20	hiovolo[4 1 0]hont 3	winathy 7 avabiava	lo[4.1.0]hontono 2. corhovulator
Test 1	Type sure routes es	: Maximisation T : Skin contact : Guinea pig : positive	lo[4.1.0]heptane-3-carboxylate: est
Asses	sment	: Probability or e	vidence of skin sensitisation in humans
	cell mutagenicity cause genetic defects		
<u>Comp</u>	oonents:		
Diaziı Genot	non: toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: In v Result: negative	itro mammalian cell gene mutation test e
		Test Type: Chro Result: negative	omosome aberration test in vitro e
Geno	toxicity in vivo	cytogenetic ass Species: Rat	ute: Intraperitoneal injection
	cell mutagenicity - ssment	: Positive result(genicity tests.	s) from in vivo mammalian somatic cell muta
Solve	ent naphtha (petrole	um), light aromatic:	
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: In vi Result: positive	itro mammalian cell gene mutation test
Geno	toxicity in vivo	gonia Species: Mouse	ute: Intraperitoneal injection
11	cell mutagenicity -		s) from in vivo heritable germ cell mutagenici

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rsion)	Revision Date: 2024/09/28	SDS Number: 11292248-00003	Date of last issue: 2024/04/06 Date of first issue: 2023/11/07
Asses	ssment	tests in mamma	ls
4-Noi	nylphenol, branched	, ethoxylated:	
Geno	toxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			damage and repair, unscheduled DNA syn alian cells (in vitro)
 7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Geno	toxicity 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 mar
			damage and repair, unscheduled DNA syn alian cells (in vitro)
Geno	toxicity 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	
	cell mutagenicity -	: Positive result(s genicity tests.) from in vivo mammalian somatic cell muta

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May c	nogenicity ause cancer. ponents:			
Diazir	ion:			
Speci Applic Expos Resul	ation Route	: Rat : Ingestion : 104 weeks : negative		
Carcir ment	nogenicity - Assess-	: Sufficient evic	dence of carcinogenicity in animal experimen	nts

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 experiments
ment		

4-Nonylphenol, branched, ethoxylated:

Species Application Route Exposure time Result Remarks	: Rat
Application Route	: Ingestion
Exposure time	: 2 Years
Result	: negative
Remarks	: Based on data from similar materials

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

Species	: Mouse
Application Route	: Skin contact
Exposure time	: 29 Months
Species Application Route Exposure time 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: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

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Solvent naphtha (petroleum), light aromatic:

Effects on fertility	: Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Result: negative
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative
7-Oxabicyclo[4.1.0]hept-3-yl	methyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

Effects on foetal develop-	:	Test Type: Embryo-foetal development
ment		Species: Rat
		Application Route: Ingestion
ment		Method: OECD Test Guideline 414
		Result: negative

STOT - single exposure

May cause drowsiness or dizziness. Causes damage to organs.

Components:

Diazinon:

Exposure routes	:	Ingestion
Target Organs	:	Nervous system
Exposure routes Target Organs Assessment	:	Shown to produce significant health effects in animals at con-
		centrations of 300 mg/kg bw or less.

Solvent naphtha (petroleum), light aromatic:

Assessment

: May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Diazinon:

Exposure routes	: Ingestion
Target Organs	: Nervous system
Exposure routes Target Organs Assessment	: Shown to produce significant health effects in animals at con- centrations of >10 to 100 mg/kg bw.

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

: Ingestion

Exposure routes	
-----------------	--

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Targe	et Organs	: nasal cavity	
Asses	ssment		ce significant health effects in animals at c 10 to 100 mg/kg bw.
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
Diazi	non:		
Speci		: Rat	
NOAE		: 0.3 mg/kg	
LOAE		: 15 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
		. co baye	
Speci		: Rat	
NOAE		: 0.1 mg/l	
LOAE		: 0.75 mg/l	
	cation Route sure time	: inhalation (dust/ : 28 Days	mistrume)
Cnaai		: Rat	
Speci LOAE	EL	: 500 mg/kg	
LÒAE Applio			
LÓAE Applic Expos 4-No i	EL cation Route sure time nyIphenol, branched	: 500 mg/kg : Ingestion : 28 Days	
LÓAE Applic Expos 4-Noi Speci	EL cation Route sure time nyIphenol, branched ies	: 500 mg/kg : Ingestion : 28 Days , ethoxylated: : Rat	
LÓAE Applio Expos 4-Noi Speci LOAE	EL cation Route sure time nyIphenol, branched ies EL	: 500 mg/kg : Ingestion : 28 Days , ethoxylated: : Rat : > 100 mg/kg	
LÓAE Applia Expos 4-Noi Speci LOAE Applia	EL cation Route sure time nylphenol, branched es EL cation Route	: 500 mg/kg : Ingestion : 28 Days , ethoxylated: : Rat : > 100 mg/kg : Ingestion	
LÓAE Applia Expos 4-Noi Speci LOAE Applia Expos	EL cation Route sure time nylphenol, branched es EL cation Route sure time	: 500 mg/kg : Ingestion : 28 Days , ethoxylated: : Rat : > 100 mg/kg : Ingestion : 90 Days	rom similar materials
LÓAE Applia Expos Speci LOAE Applia Expos Rema	EL cation Route sure time nylphenol, branched es EL cation Route sure time arks	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f 	rom similar materials
LÓAE Applia Expos Speci LOAE Applia Expos Rema	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl	rom similar materials o[4.1.0]heptane-3-carboxylate:
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 	
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa	EL cation Route sure time nyIphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les EL	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 	
LÓAE Applia Expose Speci LOAE Applia Expose Rema 7-Oxa Speci NOAE LOAE	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les EL	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 50 mg/kg 	
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa Speci NOAE LOAE Applia Expos	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les EL EL cation Route sure time	 500 mg/kg Ingestion 28 Days , ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 	
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa Speci NOAE LOAE Applia	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les EL EL cation Route sure time	 500 mg/kg Ingestion 28 Days ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 50 mg/kg Ingestion 	o[4.1.0]heptane-3-carboxylate:
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa Speci NOAE LOAE Applia Expos Metho	EL cation Route sure time nylphenol, branched des EL cation Route sure time arks abicyclo[4.1.0]hept-3 des EL EL cation Route sure time od	 500 mg/kg Ingestion 28 Days ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 50 mg/kg Ingestion 90 Days 	o[4.1.0]heptane-3-carboxylate:
LÓAE Applia Expos Speci LOAE Applia Expos Rema 7-Oxa Speci NOAE LOAE Applia Expos Metho Aspir	EL cation Route sure time nylphenol, branched les EL cation Route sure time arks abicyclo[4.1.0]hept-3 les EL EL cation Route sure time	 500 mg/kg Ingestion 28 Days ethoxylated: Rat > 100 mg/kg Ingestion 90 Days Based on data f -ylmethyl 7-oxabicycl Rat 5 mg/kg 50 mg/kg Ingestion 90 Days 	o[4.1.0]heptane-3-carboxylate:



according to GB/T 16483 and GB/T 17519

Diazinon (47%) Liquid Formulation

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Components:

Solvent naphtha (petroleum), light aromatic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

Diazinon:

Inhalation

: Symptoms: carcinogenic effects

12. ECOLOGICAL INFORMATION

Components:

D	ia	zin	on	:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.09 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0.000164 mg/l Exposure time: 48 h
M-Factor (Acute aquatic tox- icity)	:	1,000
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.092 mg/l Exposure time: 34 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00017 mg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	:	100

Solvent naphtha (petroleum), light aromatic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201

according to GB/T 16483 and GB/T 17519



rsion	Revision Date: 2024/09/28	-	S Number: 292248-00003	Date of last issue: 2024/04/06 Date of first issue: 2023/11/07
			mg/l Exposure time: Test substance:	okirchneriella subcapitata (microalgae)): 0. 96 h Water Accommodated Fraction Test Guideline 201
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: Test substance:	ia magna (Water flea)): 2.6 mg/l 21 d Water Accommodated Fraction Test Guideline 211
4-Non	ylphenol, branched, et	tho	xylated:	
Toxicit	ty to fish	:	Exposure time:	les promelas (fathead minnow)): > 0.1 - 1 r 96 h d on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time:	hnia dubia (water flea)): > 0.1 - 1 mg/l 48 h d on data from similar materials
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: Method: OECD	trum capricornutum (green algae)): > 1 - 1(72 h Test Guideline 201 d on data from similar materials
			Exposure time: Method: OECD	rum capricornutum (green algae)): > 1 mg/ 72 h Test Guideline 201 d on data from similar materials
M-Fac icity)	tor (Acute aquatic tox-	:	1	
	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 c invertebrates (Chron- city)	:	mg/l Exposure time:	osis bahia (opossum shrimp)): > 0.001 - 0.0 28 d d on data from similar materials
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
7-Oxa	bicyclo[4.1.0]hept-3-yl	me	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Toxicit	ty to fish	:	Exposure time:	nchus mykiss (rainbow trout)): 24 mg/l 96 h Test Guideline 203

according to GB/T 16483 and GB/T 17519



Diazinon (47%) Liquid Formulation

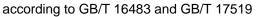
rsion	Revision Date: 2024/09/28	-	OS Number: 292248-00003	Date of last issue: 2024/04/06 Date of first issue: 2023/11/07
	y to daphnia and other invertebrates	:	Exposure time: 4	nagna (Water flea)): 40 mg/l 8 h ^r est Guideline 202
Toxicity plants	y to algae/aquatic	:	110 mg/l Exposure time: 7	elis subcapitata (freshwater green alga)): > 2 h rest Guideline 201
			mg/l Exposure time: 7	elis subcapitata (freshwater green alga)): 30 2 h est Guideline 201
Toxicity	y to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD T	
II Persis	tence and degradabil	ity		
Compo	onents:			
Solven	nt naphtha (petroleum	n), li	ght aromatic:	
Biodeg	radability	:	Result: Inherently Biodegradation: Exposure time: 2	94 %
4-Non	ylphenol, branched, e	tho	xvlated:	
Biodeg	radability	:	Result: Not readi	y biodegradable. on data from similar materials
7-Oxab	picvclo[4.1.0]hept-3-v	Ime	thvl 7-oxabicvclo	[4.1.0]heptane-3-carboxylate:
	radability	:	Result: Not readil Biodegradation: Exposure time: 2	ly biodegradable. 71 %
Bioaco	cumulative potential			
Compo	onents:			
Diazin	on:			
Bioacc	umulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 46.9

4-Nonylphenol, branched, ethoxylated:





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	ion coefficient: n- ol/water	:	log Pow: < 4		
7-0xa	abicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:	
	on coefficient: n- ol/water	:		Test Guideline 107	
	l ity in soil ata available				
	r adverse effects ata available				
13. DISPO	SAL CONSIDERATION	IS			
Dien	osal methods				
-	e from residues		Do not dispose	of waste into sewer.	
Wasit		•		cordance with local regulations.	
Conta	aminated packaging	:	Empty containers should be taken to an approved waste had ling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
14. TRAN	SPORT INFORMATION				
Interr	national Regulations				
UNRT	ſDG				
UN nu	umber	:	UN 3082		
Prope	er shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID,	
			N.O.S. (Diazinon 4-No	nylphenol, branched, ethoxylated)	
Class	i	:	9		
	ng group	:			
Label Enviro	s onmentally hazardous	:	9 yes		
	2	•	,		
UN/IC		:	UN 3082		
Prope	er shipping name	:		hazardous substance, liquid, n.o.s. mylphenol, branched, ethoxylated)	
Class	i	:	9		
	ng group	:			
Label Packi aircra	ng instruction (cargo	:	Miscellaneous 964		
Packi	ng instruction (passen- rcraft)	:	964		
Ĕnviro	onmentally hazardous	:	yes		
	i-Code umber	:	UN 3082		





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Pro	oper shipping name	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Pa La Em	ass icking group bels nS Code arine pollutant	(Diazinon, 4-Nor : 9 : III : 9 : F-A, S-F : yes	nylphenol, branched, ethoxylated)
	•		POL 73/78 and the IBC Code
	t applicable for product as s	supplied.	
GE UN	itional Regulations 3 6944/12268 N number oper shipping name	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Pa La	ass icking group bels arine pollutant	: 9 : III : 9 : yes	nylphenol, branched, ethoxylated)
Sp	ecial precautions for use	r	
ba: Sh	sed upon the properties of t	the unpackaged mate cations may vary by n	or informational purposes only, and solely erial as it is described within this Safety Data node of transportation, package sizes, and var-
15. RE0	GULATORY INFORMATIO	N	
	itional regulatory informat w on the Prevention and (onal Diseases
	gulations on Safety Mana	-	
Ca	atalogue of Hazardous Cher	nicals	: This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
	entification of Major Hazard 218)	Installations for Haza	ardous Chemicals (GB : Not listed

Hazardous Chemicals for Priority Management under : Listed SAWS

Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

according to GB/T 16483 and GB/T 17519



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Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import : Not listed and Export

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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	:	2024/09/28
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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

Date format	:	yyyy/mm/dd
Full text of other ab	breviations	
ACGIH ACGIH BEI		USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI)
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 Chemi-



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cal 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

Disclaimer

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.

CN/EN