

Version 3.0	Revision Date: 06.04.2024	-	DS Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022	
SECTION	N 1: Identification of t	he	substance/mixt	ure and of the company/undertaking	
1.1 Produ	ct identifier				
Trade	ename	:	Diazinon (23.06%	6) Liquid Formulation	
Other	Other means of identification		COOPERS DIAZINON SHEEP BLOWFLY DRESSING AND CATTLE, GOAT AND PIG SPRAY (62353)		
1.2 Releva	ant identified uses of th	ne s	ubstance or mixt	ture and uses advised against	
	of the Sub- e/Mixture	:	Veterinary produ	ct	
Reco on us	mmended restrictions	:	Not applicable		
1.3 Detail	s of the supplier of the	saf	ety data sheet		
Comp	bany	:	MSD 20 Spartan Road 1619 Spartan, S		
Telep	bhone	:	+27119239300		
	il address of person onsible for the SDS	:	EHSDATASTEW	/ARD@msd.com	
-	gency telephone numbo 08-423-6000	er			
	N 2: Hazards identific				

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Specific target organ toxicity - single ex-	H370: Causes damage to organs.
posure, Category 1	
Specific target organ toxicity - single ex-	H336: May cause drowsiness or dizziness.
posure, Category 3	
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air-
	ways.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting



ersion 0	Revision Date: 06.04.2024		S Number: 14473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
egory	<sup>,</sup> 1		effe	cts.
2 Label	elements			
Labe	lling (REGULATION (	EC) No	o 1272/2008)	
Haza	rd pictograms	:		
Signa	l word	: [	Danger	<b>v v v</b>
Haza	rd statements	+ + + + + + + +	I304May beI317May cauI318CausesI336May cauI341SuspectI350May cauI370CausesI373May cauepeated exposi	if swallowed. fatal if swallowed and enters airways. use an allergic skin reaction. serious eye damage. use drowsiness or dizziness. ted of causing genetic defects. use cancer. damage to organs. use damage to organs through prolonged or ure. kic to aquatic life with long lasting effects.
	lemental Hazard ments		UH066 racking.	Repeated exposure may cause skin dryness
Preca	utionary statements	: F	Prevention:	
		F	273 Avoid re	special instructions before use. elease to the environment. rotective gloves/ protective clothing/ eye prote stion.
		F v s F F C	vith water for se ent and easy to OISON CENT	IF exposed or concerned: Call a POISON or.

Hydrocarbons, C10, aromatics, <1% naphthalene Diazinon Calcium dodecylbenzenesulphonate

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

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 21.11.2023
3.0	06.04.2024	10814473-00007	Date of first issue: 22.07.2022

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphthalene	Registration number 64742-94-5	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 70
Diazinon	333-41-5 206-373-8 015-040-00-4	Acute Tox. 4; H302 Muta. 2; H341 Carc. 1B; H350 STOT SE 1; H370 (Nervous system) STOT RE 2; H373 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 100	>= 20 - < 25
Calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic	>= 3 - < 10
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	2386-87-0 219-207-4	aquatic toxicity): 10 Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412	>= 2,5 - < 10



Version	Revision Date:	SDS Number:	Date of last issue: 21.11.2023
3.0	06.04.2024	10814473-00007	Date of first issue: 22.07.2022

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

4.1 Description of first aid measure	S
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.
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).
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 centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and e	effects, both acute and delayed
Risks :	Harmful if swallowed. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.
4.3 Indication of any immediate med	dical attention and special treatment needed

Treatment : Treat symptomatically and supportively.



Version 3.0	Revision Date: 06.04.2024		9S Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
SECTIO	N 5: Firefighting meas	sur	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	
Unsu medi	uitable extinguishing a	:	None known.	
5.2 Speci	al hazards arising from	the	substance or m	ixture
Spec fighti	cific hazards during fire- ng	:	Exposure to com	bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides Sulphur oxides Oxides of phosp Metal oxides Sulphur compou	horus
5.3 Advic	e for firefighters			
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. Detective equipment.
Spec ods	tific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do
SECTIO	N 6: Accidental releas	se r	neasures	
6 1 Porco	nal precautions protec	•tiv4	aquinment and	emergency procedures
	onal precautions	:	Use personal pro Follow safe hand	btective equipment. Iling advice (see section 7) and personal pro- nt recommendations (see section 8).
6.2 Envir	onmental precautions			
	ronmental precautions	:		the environment. eakage or spillage if safe to do so.

onmental 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.





Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
6.3 Metho	ds and material for c	ontainment and clear	ing up
Metho	ods for cleaning up	For large spills, ment to keep ma be pumped, stor Clean up remair bent. Local or nationa	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can be recovered material in appropriate container. and materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items

posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical 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	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working 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.</li> <li>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.</li> </ul>
7.2 Conditions for safe storage, i	ncluding any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
		Self-reactive Organic pero Explosives Gases	substances and mixtures xides
-	f <b>ic end use(s)</b> ific use(s)	: No data avail	able

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Diazinon	333-41-5	OEL-RL (inhala- ble fraction and vapour)	0,02 mg/m3	ZA OEL		
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcino- genicity, which is based on GHS categorisation, including category 1A, 1B					
	Further information: Skin					

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

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Diazinon	333-41-5	Cholinesterase activity in red cells: 70 % of an individ- ual's baseline (Blood)	Discretionary (At any time)	ZA BEI

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium dodecylben- zenesulphonate	Workers	Inhalation	Long-term systemic effects	52 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	52 mg/m3
	Workers	Inhalation	Long-term local ef- fects	52 mg/m3
	Workers	Inhalation	Acute local effects	52 mg/m3
	Workers	Skin contact	Long-term systemic effects	57,2 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	80 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	1,57 mg/kg bw/day
	Workers	Skin contact	Acute local effects	1,57 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	26 mg/m3



ersion )	Revision Date: 06.04.2024			of last issue: 21.11.2023 of first issue: 22.07.2022	
		Consumers	Inhalation	Acute systemic ef- fects	26 mg/m3
		Consumers	Inhalation	Acute local effects	26 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	26 mg/m3
		Consumers	Skin contact	Long-term systemic effects	28,6 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
		Consumers	Skin contact	Acute local effects	0,787 mg/kg bw/day
		Consumers	Skin contact	Long-term local ef- fects	0,787 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	13 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	13 mg/kg bw/day
ylmeti oxabi clo[4.	1.0]hept-3- hyl 7-	Workers	Inhalation	Long-term systemic effects	0,18 mg/m3
		Workers	Inhalation	Long-term local ef- fects	0,18 mg/m3
		Workers	Skin contact	Long-term systemic effects	0,05 mg/kg bw/day
	ocarbons, C10, atics, <1% naph- ne	Workers	Inhalation	Long-term systemic effects	151 mg/m3
		Workers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	32 mg/m3
		Consumers	Skin contact	Long-term systemic effects	7,5 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	7,5 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Calcium dodecylbenzenesulpho-	Fresh water	0,28 mg/l
nate		
	Freshwater - intermittent	0,654 mg/l
	Marine water	0,458 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	27,5 mg/kg dry weight (d.w.)
	Marine sediment	2,75 mg/kg dry weight (d.w.)
	Air	10 mg/m3
	Soil	25 mg/kg dry weight (d.w.)



0,0024 mg/l

weight (d.w.)

0,211 mg/kg dry

0,0211 mg/kg dry weight (d.w.)

0,0282 mg/kg dry weight (d.w.)

19,5 mg/l

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

Ver 3.0	rsion Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.20 Date of first issue: 22.07.20	
	7-Oxabicyclo[4.1.0]hept-3- ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	Oral Fresh water		20 mg/kg food 0,024 mg/l
		Freshwater - ir	ntermittent	0,24 mg/l

Marine water

Engineering measures
Use appropriate engineering controls and manufacturing technologies to control airborne concen-
trations (e.g., drip-less quick connections).

Sewage treatment plant

Fresh water sediment

Marine sediment

Soil

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.

8.2 Exposure controls

#### Personal protective equipment

Eye/face protection Hand protection	:	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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection Filter type	:	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 (A-P)
	•	Combined particulates and organic vapour type (A-F)

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: clear, yellow



Ver 3.0	sion	Revision Date: 06.04.2024		S Number: 314473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
	Odour Odour	Threshold	:	characteristic No data available	9
	рН		:	No data available	)
	Melting	point/freezing point	:	No data available	)
		oiling point and boiling	:	No data available	)
	range Flash p	point	:	No data available	)
	Evapor	ation rate	:	No data available	)
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	)
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	No data available	)
	Density	/	:	No data available	)
		er solubility n coefficient: n-	:	No data available Not applicable	9
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	formation			
	Flamm	ability (liquids)	:	No data available	)
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	Not applicable	



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
SECTION	N 10: Stability and r	eactivity	
<b>10.1 Reac</b> Not c	<b>tivity</b> lassified as a reactivity	hazard.	
	nical stability e under normal conditi	ons.	
10.3 Poss	bibility of hazardous r	eactions	
	rdous reactions		th strong oxidizing agents.
	ditions to avoid		
Cond	litions to avoid	: None known	
	mpatible materials		
Mate	rials to avoid	: Oxidizing ag	ents
	ardous decomposition azardous decomposition	•	m.
SECTION	N 11: Toxicological	information	
	-		
	mation on toxicologion mation on likely routes		
expos	•	Skin contact Ingestion Eye contact	
	<b>e toxicity</b> ıful if swallowed.		
<u>Prod</u>	uct:		
	e oral toxicity		estimate: 1.850 mg/kg ulation method
Com	ponents:		
Hvdr	ocarbons, C10, arom	atics. <1% naphtha	lene:
	e oral toxicity	: LD50 (Rat): > Method: OEC	
Acute	e inhalation toxicity	Method: OEC	
Acute	e dermal toxicity		): > 2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022				
		toxicity Remarks: Ba	sed on data from similar materials				
Diazi	non:						
Acute	e oral toxicity	: LD50 (Rat): 1	.139 mg/kg				
Acute	inhalation toxicity	Exposure time	: LC50 (Rat): > 5,437 mg/l Exposure time: 4 h Test atmosphere: dust/mist				
Acute	e dermal toxicity	: LD50 (Rabbit	): > 2.020 mg/kg				
Calci	um dodecylbenzene	sulphonate:					
Acute	e oral toxicity	Method: OEC	· 500 - 2.000 mg/kg D Test Guideline 401 sed on data from similar materials				
Acute	e dermal toxicity		): > 2.000 mg/kg D Test Guideline 402 sed on data from similar materials				
Nony	Iphenol, ethoxylated	:					
	oral toxicity		LD50 (Rat): 500 - 2.000 mg/kg				
7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicy	/clo[4.1.0]heptane-3-carboxylate:				
	e oral toxicity	: LD50 (Rat, m	ale): > 2.959 - 5.000 mg/kg D Test Guideline 401				
Acute	e inhalation toxicity	Method: OEC					
Acute	e dermal toxicity		2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal				
Repe	corrosion/irritation ated exposure may ca	use skin dryness or	cracking.				
-	ponents:		lana				
	ocarbons, C10, arom ssment	-	lene: posure may cause skin dryness or cracking.				
Diazi	non:						
Speci Resu	ies	: Rabbit : Mild skin irrita	ation				
		12/2	28				



ersion 0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022				
Calciu	um dodecylbenzene	sulphonate:					
Species		: Rabbit					
Metho		: OECD Test Gui	ideline 404				
Resul		: Skin irritation	from similar materials				
Rema	IIKS	. Based on data i	nom similar materials				
	Iphenol, ethoxylated	1:					
Speci			: Rabbit				
Metho Resul		: OECD Test Gui					
Resul	L	. NO SKIT ITITALIOI	: No skin irritation				
		3-ylmethyl 7-oxabicycl	lo[4.1.0]heptane-3-carboxylate:				
Speci		: Rabbit					
Metho Resul		: OECD Test Gui : No skin irritatior					
Resul	l	. INO SKITI ITITALIOI	I				
Serio	us eye damage/eye	irritation					
Cause	es serious eye damag	je.					
Comp	oonents:						
		natics, <1% naphthale	ne:				
Species :		: Rabbit					
Resul		: No eye irritation					
Rema	irks	: Based on data f	from similar materials				
Calciu	um dodecylbenzene	sulphonate:					
Speci	-	: Rabbit					
Metho		: OECD Test Gui	ideline 405				
Resul		: Irreversible effe					
Rema	irks	: Based on data f	from similar materials				
Nony	Iphenol, ethoxylated	1:					
Speci		: Rabbit					
Metho		: OECD Test Gui					
Resul	t	: Irreversible effe	cts on the eye				
7-Oxa	bicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicycl	lo[4.1.0]heptane-3-carboxylate:				
Species		: Rabbit					
Metho		: OECD Test Gui					
Resul	t	: No eye irritation	1				
Respi	iratory or skin sensi	tisation					
Skin s	sensitisation						
May c	ause an allergic skin	reaction.					
	iratory sensitisation						

Not classified based on available information.



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022		
Com	ponents:				
Hydr	ocarbons, C10, aron	natics, <1% naphthale	ne:		
Test		: Maximisation Te			
	sure routes	: Skin contact			
Spec		: Guinea pig			
Resu Rema		: negative : Based on data f	rom similar materials		
Diazi	non:				
Test		: Buehler Test			
	sure routes	: Skin contact			
Spec	ies	: Guinea pig			
Resu	lt	: negative			
Calci	ium dodecylbenzene	sulphonate:			
Test		: Maximisation Te	est		
	sure routes	: Skin contact			
Spec Meth		: Guinea pig : OECD Test Gui	deline 106		
Resu		: negative			
Rema		5	rom similar materials		
Nony	/Iphenol, ethoxylated	J:			
Test	Туре	: Maximisation Te	est		
	sure routes	: Skin contact			
Spec		: Guinea pig			
Resu		: negative			
Rema	arks	Based on data i	rom similar materials		
			o[4.1.0]heptane-3-carboxylate:		
Test			Maximisation Test		
	sure routes		Skin contact		
Spec Resu		: Guinea pig : positive			
Asse	ssment	: Probability or ev	vidence of skin sensitisation in humans		
Germ	n cell mutagenicity				
	ected of causing gene	etic defects.			
	ponents:				
		natics, <1% naphthale	ne:		
Geno	otoxicity in vitro	malian cells Result: negative	ro sister chromatid exchange assay in mam- e d on data from similar materials		
Geno	otoxicity in vivo	: Test Type: Muta	agenicity (in vivo mammalian bone-marrow , chromosomal analysis)		



sion	Revision Date: 06.04.2024		S Number: 314473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022		
			Result: negative	e: inhalation (vapour) on data from similar materials		
II Diazir	non:					
Genot	toxicity in vitro	:	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test		
			Test Type: Chron Result: negative	nosome aberration test in vitro		
Genot	toxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay)</li> <li>Species: Rat</li> <li>Application Route: Intraperitoneal injection</li> <li>Result: positive</li> </ul>				
Germ sessm		:	Positive result(s) from in vivo mammalian somatic cell muta genicity tests.			
ll Calciu	um dodecylbenzenesi	ulnho	nato.			
Calcium dodecylbenzenes Genotoxicity in vitro		-	Test Type: Bacter Method: OECD T	rial reverse mutation assay (AMES) est Guideline 471		
			Result: negative Remarks: Based	on data from similar materials		
			Result: negative	o mammalian cell gene mutation test on data from similar materials		
			Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials		
Genot	toxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Result: negative			
Nony	Iphenol, ethoxylated:					
		:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials			
7-Oxa	abicyclo[4.1.0]hept-3-v	/Imet	hyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:		
	toxicity in vitro			rial reverse mutation assay (AMES)		

Ge	notoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
----	---------------------	---	--



Version 3.0	Revision Date: 06.04.2024	SDS Number:Date of last issue: 21.11.202310814473-00007Date of first issue: 22.07.2022	
		Method: OECD Test Guideline 471 Result: positive	
		Test Type: In vitro mammalian cell gene mutation test Result: positive	
		Test Type: In vitro sister chromatid exchange assay in mar malian cells Result: positive	m-
		Test Type: DNA damage and repair, unscheduled DNA syn thesis in mammalian cells (in vitro) Result: positive	n-
Gend	otoxicity in vivo	: Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 486 Result: negative	
		Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative	
		Test Type: Transgenic rodent somatic cell gene mutation a say Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 488 Result: positive	as-
Gern sessi	n cell mutagenicity- As- ment	: Positive result(s) from in vivo mammalian somatic cell muta genicity tests.	a-
Carc	<b>inogenicity</b> cause cancer.		
<u>Com</u>	ponents:		
	inon:		
	cation Route	: Rat : Ingestion : 104 weeks : negative	
Carc ment	inogenicity - Assess-	: Sufficient evidence of carcinogenicity in animal experiment	ts
7-Ox	abicyclo[4.1.0]hept-3-y	methyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:	
Spec Appli Expo Resu	cation Route	<ul> <li>Mouse</li> <li>Skin contact</li> <li>29 Months</li> <li>negative</li> </ul>	



VersionRevision Date:SDS Number:Date of last issue: 21.11.20233.006.04.202410814473-00007Date of first issue: 22.07.2022	
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#### Reproductive toxicity

Not classified based on available information.

#### Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:				
Effects on fertility	pecies: Rat pplication Route: in esult: negative	neration reproduction toxicity study halation (vapour) data from similar materials		
Effects on foetal develop- ment	est Type: Embryo-fo pecies: Rat pplication Route: In esult: negative emarks: Based on o			
Diazinon:				
Effects on fertility	est Type: Three-gei pecies: Rat pplication Route: In esult: negative			
Effects on foetal develop- ment	est Type: Embryo-fo pecies: Rat pplication Route: In esult: negative			

#### Calcium dodecylbenzenesulphonate:

Effects on fertility :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- : ment	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 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:

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



rsion )	Revision Date: 06.04.2024		S Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022		
			Result: negative			
II						
	- single exposure					
	ause drowsiness or o as damage to organs		SS.			
	onents:	-				
Hydro	carbons, C10, aron	natics,	<1% naphthaler	e:		
Asses		:		siness or dizziness.		
Rema	rks	:	Based on data fi	rom similar materials		
Diazin	ion:					
	ure routes		Ingestion			
	t Organs	:	Nervous system			
Asses	sment	:		ce significant health effects in animals at co		
11			centrations of 30	0 mg/kg bw or less.		
STOT	- repeated exposur	e				
May c	ause damage to orga	ans thre	ough prolonged o	r repeated exposure.		
<u>Comp</u>	onents:					
Diazin	ion:					
Expos	ure routes	:	Ingestion			
	t Organs	:	Nervous system			
Asses	sment	:		ce significant health effects in animals at co 0 to 100 mg/kg bw.		
	ım dodecylbenzene	sulph				
Asses	sment	:	No significant he tions of 100 mg/	ealth effects observed in animals at concent kg bw or less.		
7-Oxa	bicyclo[4.1.0]hept-3	3-ylme	thyl 7-oxabicycle	o[4.1.0]heptane-3-carboxylate:		
	ure routes	:	Ingestion			
Target	t Organs	:	nasal cavity			
Asses	sment	:		ce significant health effects in animals at co 0 to 100 mg/kg bw.		
Repea	ated dose toxicity					
-	onents:					
Hydro	ocarbons, C10, aron	natics,	<1% naphthaler	e:		
Specie		:	Rat			
NOAE	L	:	300 mg/kg			
Applic	ation Route	:	Ingestion			
	ure time		<ul><li>13 Weeks</li><li>Based on data from similar materials</li></ul>			
Expos		•				



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022				
	ΞL	: Rat : 0,3 mg/kg : 15 mg/kg : Ingestion : 90 Days					
	ΞL	: Rat : 0,1 mg/l : 0,75 mg/l : inhalation (dust/ : 28 Days	: 0,1 mg/l : 0,75 mg/l : inhalation (dust/mist/fume)				
	um dodecylbenzene	sulphonate:					
Speci		: Rat					
LOAE		: > 200 mg/kg					
	cation Route sure time	: Ingestion : 6 - 7 Weeks					
Metho		: OECD Test Gui	deline 422				
Rema			rom similar materials				
Speci	es	: Rabbit					
NOAE		: > 100 mg/kg					
Applic	cation Route	: Skin contact					
	sure time	: 28 Days					
Metho		: OECD Test Gui					
Rema	arks	: Based on data f	rom similar materials				
7-0xa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:				
Speci	es	: Rat					
NOAE		: 5 mg/kg					
LOAE		: 50 mg/kg					
	cation Route	: Ingestion					
Expos	sure time	: 90 Days : OECD Test Gui	deline 408				
Metric	Ju	. OECD Test Gui					
•	ration toxicity be fatal if swallowed a	nd enters airways.					
Com	oonents:						
Hydro	ocarbons, C10, arom	atics, <1% naphthaler	ne:				
		s known to cause huma nan aspiration toxicity h	n aspiration toxicity hazards or has to be re- azard.				
Expe	rience with human e	xposure					
Com	oonents:						
<b>Diazi</b> Inhala	-	· Symptoms: care	inogenic effects				
Innala		: Symptoms: carc					



Version	Revision Date:	SDS Number:	Date of last issue: 21.11.2023
3.0	06.04.2024	10814473-00007	Date of first issue: 22.07.2022

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Components:

Hydrocarbons, C10, aromati	Hydrocarbons, C10, aromatics, <1% naphthalene:					
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials				
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials				
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials				
Diazinon:						
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,09 mg/l Exposure time: 96 h				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0,000164 mg/l Exposure time: 48 h				
M-Factor (Acute aquatic tox- icity)	:	1.000				
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,092 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow)				
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,00017 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)				
M-Factor (Chronic aquatic toxicity)	:	100				
Calcium dodecylbenzenesu	lph	onate:				
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h Remarks: Based on data from similar materials				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h				

### SAFETY DATA SHEET



Version 3.0	Revision Date: 06.04.2024		98 Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
			Remarks: Based	on data from similar materials
Toxic plants	tity to algae/aquatic s	:	100 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 10 - 2 h on data from similar materials
			1 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 0,1 - 2 h on data from similar materials
Toxic	ity to microorganisms	:	Exposure time: 3 Method: OECD To	
Toxic icity)	ity to fish (Chronic tox-	:		
	ity to daphnia and other tic invertebrates (Chron- icity)	:		l d magna (Water flea) on data from similar materials
II Nonv	/lphenol, ethoxylated:			
	ity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0,1 - 1 mg/l 5 h on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials
Toxic plant	ity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
Toxic icity)	to fish (Chronic tox-	:		



Version 3.0	Revision Date: 06.04.2024	-	OS Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 28 Species: Mysidop	3 d sis bahia (opossum shrimp)
M-Fac toxicit	ctor (Chronic aquatic	:		on data from similar materials
	• •	Imo	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 24 mg/l
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 40 mg/l 3 h est Guideline 202
Toxic plants	ity to algae/aquatic	:	110 mg/l Exposure time: 72 Method: OECD T	
Toxic	ity to microorganisms	:	mg/l Exposure time: 72 Method: OECD T EC10 (activated s Exposure time: 3	2 h est Guideline 201 sludge): 409 mg/l
-	stence and degradabil	ity		
			40/ mankthalan	
	ocarbons, C10, aromat gradability	:	Result: Not readil Biodegradation: 4 Exposure time: 28	y biodegradable. 49,56 %
Calci	um dodecylbenzenesu	Inh	onate:	
	gradability	:	Result: Readily bi	odegradable. on data from similar materials
Nony	Iphenol, ethoxylated:			
	gradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials
7-Oxa	abicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	gradability	:	Result: Not readil Biodegradation:	y biodegradable.
			22/20	



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
		Exposure time: Method: OECD	28 d Test Guideline 301B
12.3 Bio	accumulative potential		
<u>Cor</u>	nponents:		
Dia	zinon:		
Bioa	accumulation		nus carpio (Carp) on factor (BCF): 46,9
	tition coefficient: n- anol/water	: log Pow: 3,69	
	cium dodecylbenzenes	•	
Bioa	accumulation		on factor (BCF): < 500 ed on data from similar materials
	tition coefficient: n- anol/water	: log Pow: 4,77 Remarks: Calco	ulation
Nor	ylphenol, ethoxylated:		
	tition coefficient: n- anol/water	: log Pow: 4,48	
			lo[4.1.0]heptane-3-carboxylate:
	tition coefficient: n- anol/water	: log Pow: 1,34 Method: OECD	Test Guideline 107
	<b>bility in soil</b> data available		
12.5 Res	sults of PBT and vPvB a	ssessment	
Pro	duct:		
Ass	essment	to be either per	/mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Oth	er adverse effects		
<u>Pro</u>	duct:		
End tial	locrine disrupting poten-	have endocrine ing to REACH	/mixture contains components considered to disrupting properties for environment, accord- Article 57(f), Commission Regulation (EU) ommission Delegated Regulation (EU)
<u>Cor</u>	nponents:		
Nor	ylphenol, ethoxylated:		
	locrine disrupting poten-		is considered to have endocrine disrupting ording to REACH Article 57(f) for the environ-
		00.100	



Version 3.0	Revision Date: 06.04.2024		OS Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022	
II			ment.		
SECTION	13: Disposal cons	idera	ations		
13.1 Waste	e treatment methods				
Product Contaminated packaging			Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han-		
				rcling or disposal. specified: Dispose of as unused product.	
SECTION	14: Transport info	rmat	ion	<u> </u>	
14.1 UN nu	lmber				
ADN ADR		:	UN 3082 UN 3082		
RID		•	UN 3082		
IMDG			UN 3082		
IATA			UN 3082		
	oper shipping name	-			
ADN		:	ENVIRONMENT N.O.S. (Diazinon)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ADR		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diazinon)		
RID		:	ENVIRONMENT N.O.S. (Diazinon)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
IMDG		:	ENVIRONMENT N.O.S. (Diazinon)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ΙΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (Diazinon)		
14.3 Trans	port hazard class(es	)			
			Class	Subsidiary risks	
ADN		:	9		
ADR		:	9		
			9		



Versi 3.0	ion	Revision Date: 06.04.2024		OS Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
I	IMDG		:	9	
I	ΙΑΤΑ		:	9	
14.4	Packin	ig group			
	Classifi	g group cation Code Identification Number	:	III M6 90 9	
	Classifi Hazard Labels	g group cation Code Identification Number restriction code	:	III M6 90 9 (-)	
	Classifi	g group cation Code Identification Number	:	III M6 90 9	
	<b>IMDG</b> Packing Labels EmS C	g group ode	:	III 9 F-A, S-F	
 ;   	aircraft Packing	g instruction (cargo	:	964 Y964 III Miscellaneous	
	Packing ger airc Packing	Passenger) g instruction (passen- craft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5	Enviro	nmental hazards			
	<b>ADN</b> Enviror	nmentally hazardous	:	yes	
	ADR	mentally hazardous	:	yes	
	<b>RID</b> Enviror	mentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	



Version	Revision Date:	SDS Number:	Date of last
3.0	06.04.2024	10814473-00007	Date of first

Date of last issue: 21.11.2023 Date of first issue: 22.07.2022

#### IATA (Cargo)

Environmentally hazardous : yes

#### 14.6 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.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

15.1 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

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

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

#### **Full text of H-Statements** H302 Harmful if swallowed. May be fatal if swallowed and enters airways. H304 H315 Causes skin irritation. H317 May cause an allergic skin reaction. Causes serious eye damage. H318 May cause drowsiness or dizziness. H336 Suspected of causing genetic defects. H341 H350 May cause cancer. H370 Causes damage to organs. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

H412 I OXIC to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.

Acute toxicity

5



Version 3.0	Revision Date: 06.04.2024	 0S Number: 814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
Aquati Asp. T Carc. Eye D Muta. Skin Ir Skin S STOT STOT	am. rit. ens. RE SE	Long-term (chroni Aspiration hazard Carcinogenicity Serious eye dama Germ cell mutage Skin irritation Skin sensitisation Specific target org Specific target org	age enicity gan toxicity - repeated exposure gan toxicity - single exposure
Agents, Biological Exposure Inc ZA OEL : South Africa. The Regulations f		Regulations for Hazardous Chemical	
ZA OEL / OEL-RL Agents, Occupational Exposure Limits Sure or equivalent (12 hour shifts)		osure Limit Restricted limit - 8- hour expo-	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

#### 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/



Version 3.0	Revision Date: 06.04.2024	SDS Number: 10814473-00007	Date of last issue: 21.11.2023 Date of first issue: 22.07.2022
Class	ification of the mixt	ure:	Classification procedure:
Acute	Tox. 4	H302	Calculation method
Eye D	am. 1	H318	Calculation method
Skin S	Sens. 1	H317	Calculation method
Muta.	2	H341	Calculation method
Carc.	1B	H350	Calculation method
STOT	SE 1	H370	Calculation method
STOT	SE 3	H336	Calculation method
STOT	RE 2	H373	Calculation method
Asp. T	Гох. 1	H304	Calculation method
Aquat	ic Acute 1	H400	Calculation method
Aquat	ic Chronic 1	H410	Calculation method

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

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.

ZA / EN