

## **Temephos Liquid Formulation**

Commission Regulation (EU) 2020/878

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
4.0	06.04.2024	10819510-00006	Date of first issue: 21.07.2022

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

Trade name : Temephos Liquid Formulation

Other means of identification : Coopers Assassin Sheep Dip (47568)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	: Veterinary product	
Recommended restrictions on use	: Not applicable	
1.3 Details of the supplier of the	e safety data sheet	

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### **1.4 Emergency telephone number**

1-908-423-6000

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 Serious eye damage, Category 1 Skin sensitisation, Category 1	H332: Harmful if inhaled. H318: Causes serious eye damage. H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air- ways.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ego <b>2.2 Labe</b>	ry 1 I elements		effect	S.
	elling (REGULATION (I ard pictograms	EC) No :	1272/2008)	
Sigr	al word	: Da	anger	• • •
Haz	ard statements		317         May           318         Cau:           332         Harr           336         May           341         Susp           372         Cau:           repe	be fatal if swallowed and enters airways. cause an allergic skin reaction. ses serious eye damage. nful if inhaled. cause drowsiness or dizziness. bected of causing genetic defects. ses damage to organs through prolonged or ated exposure.
	plemental Hazard ements	: EI	UH066 Rep crac	eated exposure may cause skin dryness or king.
Prec	cautionary statements	P: <b>R</b> ( P: P:	280 Wea prote <b>esponse:</b> 301 + P310 IF CEN 305 + P351 + P with lense ing.	water for several minutes. Remove contact es, if present and easy to do. Continue rins- Immediately call a POISON CENTER/ doctor.
				IOT induce vomiting. ect spillage.

### Hazardous components which must be listed on the label:

Hydrocarbons, C10, aromatics, <1% naphthalene Temephos 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.



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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

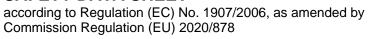
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 30 - < 50
Temephos	3383-96-8 222-191-1	Acute Tox. 4; H332 Acute Tox. 4; H312 STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100,000 M-Factor (Chronic aquatic toxicity): 100,000 Acute toxicity esti- mate	>= 30 - < 50
		Acute inhalation tox- icity (dust/mist): 4.8 mg/l Acute dermal toxicity: 2,000 mg/kg	
Oxirane, 2-methyl-, polymer with oxirane, mono(nonylphenyl) ether	37251-69-7	Aquatic Chronic 3; H412	>= 2.5 - < 10
Calcium dodecylbenzenesulpho-	26264-06-2	Acute Tox. 4; H302	>= 3 - < 10





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nate		247-557-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity esti- mate Acute oral toxicity: 500.05 mg/kg	
ylmetł	cyclo[4.1.0]heptane-3-	2386-87-0 219-207-4	Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412	>= 2.5 - < 10
2,6-Di	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2.5

For explanation of abbreviations see section 16.

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

### 4.1 Description of 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.
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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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.



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In cas	e of eye contact	for at least 15 m If easy to do, rer	ct, immediately flush eyes with plenty of water inutes. nove contact lens, if worn. ention immediately.
lf swa	llowed	If vomiting occur Call a physician Rinse mouth the	D NOT induce vomiting. rs have person lean forward. or poison control centre immediately. proughly with water. ning by mouth to an unconscious person.
4 2 Most ii	mnortant symptoms	and effects both acu	te and delayed

### 4.2 Most important symptoms and effects, both acute and delayed

Repeated exposure may cause skin dryness or cracking.	Risks	<ul> <li>May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.</li> </ul>
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### 4.3 Indication of any immediate medical attention and special treatment needed

•	-	
Treatment	: Treat symptomatically and supportively.	

### **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b> Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Sulphur oxides Oxides of phosphorus Metal oxides Sulphur compounds
E 2 Advice for firefighters		

### 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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for fire	efighters	Use personal pro	ptective equipment.
Speci ods	fic 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

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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.

cannot be contained.

Local authorities should be advised if significant spillages

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>Soak up with inert absorbent material.</li> <li>For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal 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.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>
	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.
		Vorhaddori.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	ce on safe handling ene measures	Do not breat Do not swalk Do not get in Wash skin th Handle in acc practice, bas sessment Keep contair Do not eat, d Take care to environment. If exposure to flushing syste place. When work clothing Wash contar The effective engineering of appropriate of industrial hyg	eyes. oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- ner tightly closed. rink or smoke when using this product. prevent spills, waste and minimize release to the
7.2 Cond	itions for safe storage,	, including any inc	compatibilities
Requ	uirements for storage s and containers	: Keep in prop tightly closed	erly labelled containers. Store locked up. Keep I. Keep in a cool, well-ventilated place. Store in with the particular national regulations.
۵dvi	co on common storage	· Do not store	with the following product types:

Advice on common storage	:	Do not store with the following product types:
		Strong oxidizing agents
		Self-reactive substances and mixtures
		Organic peroxides
		Explosives
		Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

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

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	OELV - 8 hrs (TWA) (inhalable fraction)	5 mg/m3	IE OEL
Temephos	3383-96-8	OELV - 8 hrs (TWA)	1 mg/m3	IE OEL
2,6-Di-tert-butyl-p-	128-37-0	OELV - 8 hrs	2 mg/m3	IE OEL

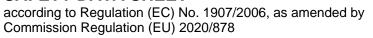


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cresol		(TWA)		

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Hydrocarbons, C10, aromatics, <1% naph- thalene	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
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
	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
2,6-Di-tert-butyl-p-	Workers	Inhalation	Long-term systemic	3.5 mg/m3





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cresol				effects	
		Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0.86 mg/m3
		Consumers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg bw/day
ylmeth oxabic	.0]hept-3- yl 7- y- .0]heptane-3-	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

### 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.)
	Oral	20 mg/kg food
2,6-Di-tert-butyl-p-cresol	Fresh water	0.199 µg/l
	Intermittent use/release	0.02 µg/l
	Marine water	0.02 µg/l
	Sewage treatment plant	0.17 mg/l
	Fresh water sediment	0.0996 mg/kg dry
		weight (d.w.)
	Marine sediment	0.00996 mg/kg
		dry weight (d.w.)
	Soil	0.04769 mg/kg
		dry weight (d.w.)
	Oral (Secondary Poisoning)	8.33 mg/kg food
7-Oxabicyclo[4.1.0]hept-3-	Fresh water	0.024 mg/l
ylmethyl 7-		
oxabicyclo[4.1.0]heptane-3-		
carboxylate		
	Freshwater - intermittent	0.24 mg/l

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weight (d.w.)

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		Marine water		0.0024 mg/l
		Sewage treatm	nent plant	19.5 mg/l
		Fresh water se	ediment	0.211 mg/kg dry weight (d.w.)
		Marine sedime	ent	0.0211 mg/kg dry weight (d.w.)
		Soil		0.0282 mg/kg dry

#### 8.2 Exposure controls

#### **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.

#### Personal protective equipment

:	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.
:	Chemical-resistant gloves
:	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, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387 Combined particulates and organic vapour type (A-P)
	: : : :

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

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

Physical state	:	liquid
Colour	:	clear, Straw-coloured
Odour	:	characteristic

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Odour <sup>-</sup>	Threshold	:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial be range	oiling point and boiling	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Flash p	oint	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	)
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Relative	e vapour density	:	No data available	9
		characteristics icle size	:	Not applicable	
9.2		formation			
	Explosi	ves	:	Not explosive	

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C	Oxidizing properties	: T	The substance or	mixture is not classified as oxidizing.				
E	Evaporation rate	: N	: No data available					
Ν	Molecular weight	: No data available						
SEC	TION 10: Stability and re	eactivit	у					
	<b>Reactivity</b> Not classified as a reactivity	hazard.						
10.2 (	Chemical stability							
5	Stable under normal condition	ons.						
10.3 I	Possibility of hazardous re	eactions	S					
ŀ	Hazardous reactions	: 0	Can react with st	rong oxidizing agents.				
10.4 (	Conditions to avoid							
C	Conditions to avoid	: N	None known.					
10.5 I	Incompatible materials							
Ν	Materials to avoid	: 0	Dxidizing agents					
10.6 I	Hazardous decomposition	produc	cts					
١	No hazardous decompositio	n produc	cts are known.					
SEC	TION 11: Toxicological	nforma	ation					

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact Acute toxicity Harmful if inhaled. **Product:** : Acute toxicity estimate: > 2,000 mg/kg Acute oral toxicity Method: Calculation method : Acute toxicity estimate: 4.69 mg/l Acute inhalation toxicity Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method : Acute toxicity estimate: > 2,000 mg/kg Acute dermal toxicity Method: Calculation method



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<u>Comp</u>	oonents:		
Hydro	ocarbons, C10, aron	atics, <1% naphthal	ene:
Acute	oral toxicity		5,000 mg/kg D Test Guideline 420 eed on data from similar materials
Acute	inhalation toxicity		e: 4 h
Acute	dermal toxicity	Method: OEC Assessment: toxicity	: > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derm eed on data from similar materials
_	phos:		
Acute	oral toxicity	: LD50 (Mouse,	, female): 2,062 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosphe	e: 4 h
Acute	dermal toxicity	: LD50 (Rat, ma	ale): 2,000 mg/kg
l Oxira	ne. 2-methyl-, polyn	er with oxirane, mo	no(nonylphenyl) ether:
-	oral toxicity	: LD50 (Rat): >	
Acute	dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
Calci	um dodecylbenzene	sulphonate:	
	oral toxicity	: LD50 (Rat): > Method: OEC	500 - 2,000 mg/kg D Test Guideline 401 eed on data from similar materials
Acute	dermal toxicity		: > 2,000 mg/kg D Test Guideline 402 sed on data from similar materials
11 7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
	oral toxicity	: LD50 (Rat, ma	ale): > 2,959 - 5,000 mg/kg D Test Guideline 401
Acute	inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosphe Method: OEC	e: 4 h



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			Assessment: The tion toxicity	substance or mixture has no acute inhala-
Acute derm	nal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Assessment: The toxicity	
2,6-Di-tert	-butyl-p-cresol:			
Acute oral		:	LD50 (Rat): > 6,0 Method: OECD T	
Acute derm	nal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Assessment: The toxicity	
	sion/irritation			
	exposure may caus	se s	kin dryness or crac	king.
<u>Componer</u>	<u>nts:</u>			
		ics,	<1% naphthalene	2:
Hydrocarb Assessmer		ics, :	-	e: Ire may cause skin dryness or cracking.
	nt	ics, :	-	
Assessmer	nt	ics, :	-	
Assessmer Temephos	nt	ics, : :	Repeated exposu	
Assessmer Temephos Species Result	nt	:	Repeated exposu Rabbit No skin irritation	
Assessmer Temephos Species Result	nt s:	:	Repeated exposu Rabbit No skin irritation	
Assessmer Temephos Species Result Calcium de Species Method	nt s:	:	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide	ire may cause skin dryness or cracking.
Assessmer Temephos Species Result Calcium d Species Method Result	nt s:	:	Repeated exposu Rabbit No skin irritation <b>onate:</b> Rabbit OECD Test Guide Skin irritation	re may cause skin dryness or cracking. eline 404
Assessmer Temephos Species Result Calcium de Species Method	nt s:	:	Repeated exposu Rabbit No skin irritation <b>onate:</b> Rabbit OECD Test Guide Skin irritation	ire may cause skin dryness or cracking.
Assessmer Temephos Species Result Calcium de Species Method Result Result Remarks	nt s: odecylbenzenesu	: : : : :	Repeated exposu Rabbit No skin irritation <b>onate:</b> Rabbit OECD Test Guide Skin irritation Based on data fro	re may cause skin dryness or cracking. eline 404
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy	nt s: odecylbenzenesu	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit	re may cause skin dryness or cracking. eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b>
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy Species Method	nt s: odecylbenzenesu	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit OECD Test Guide	re may cause skin dryness or cracking. eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b>
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy	nt s: odecylbenzenesu	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit	re may cause skin dryness or cracking. eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b>
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy Species Method Result	nt s: odecylbenzenesu	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit OECD Test Guide	re may cause skin dryness or cracking. eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b>
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy Species Method Result	nt s: odecylbenzenesu clo[4.1.0]hept-3-y	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit OECD Test Guide	re may cause skin dryness or cracking. eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b>
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy Species Method Result 2,6-Di-tert- Species Method	nt s: odecylbenzenesu clo[4.1.0]hept-3-y	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit OECD Test Guide No skin irritation	eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b> eline 404
Assessmer Temephos Species Result Calcium de Species Method Result Remarks 7-Oxabicy Species Method Result 2,6-Di-tert- Species	nt s: odecylbenzenesu clo[4.1.0]hept-3-y	: : : : :	Repeated exposu Rabbit No skin irritation onate: Rabbit OECD Test Guide Skin irritation Based on data fro thyl 7-oxabicyclo Rabbit OECD Test Guide No skin irritation Rabbit OECD Test Guide No skin irritation	eline 404 om similar materials <b>[4.1.0]heptane-3-carboxylate:</b> eline 404

Causes serious eye damage.



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Com	ponents:		
		natics, <1% naphthale	ne.
Spec		: Rabbit	
Resu		: No eye irritatior	
Rem	arks	: Based on data	from similar materials
Tem	ephos:		
Spec		: Rabbit	
Resu	ılt	: No eye irritatior	1
Calc	ium dodecylbenzene	sulphonate:	
Spec		: Rabbit	
Meth		: OECD Test Gu	
Resu		: Irreversible effe	
Rem	arks	: Based on data	from similar materials
7-Ox	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Spec		: Rabbit	
Meth		: OECD Test Gu	
Resu	μ	: No eye irritatior	I
	Di-tert-butyl-p-cresol:		
Spec		: Rabbit	
Meth		: OECD Test Gu	
Resu Rem		: No eye irritatior	۱ from similar materials
		. Dased on data	
Resp	piratory or skin sensi	tisation	
Skin	sensitisation		
May	cause an allergic skin	reaction.	
Resp	piratory sensitisation		
-	classified based on ava		
<u>Com</u>	ponents:		
Hydr	ocarbons, C10, aron	natics, <1% naphthale	ne:
Test		: Maximisation T	est
	sure routes	: Skin contact	
Spec		: Guinea pig	
Resu	arks	: negative : Based on data	from similar materials
	ephos:		
Test	Type	<ul> <li>Buehler Test</li> </ul>	

Test Type Exposure routes Species	:	<b>Buehler Test</b>
Exposure routes	:	Skin contact
Species	:	Guinea pig

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Meth Resu		: OECD Test ( : negative	Guideline 406
Calci	ium dodecylbenzene	esulphonate:	
Test Expo Spec Metho Resu Rema	sure routes ies od It	: Maximisation : Skin contact : Guinea pig : OECD Test ( : negative : Based on da	
7-0x	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabic	yclo[4.1.0]heptane-3-carboxylate:
Test Expo Spec Resu	sure routes ies	: Maximisation : Skin contact : Guinea pig : positive	Test
Asse	ssment	: Probability or	evidence of skin sensitisation in humans
Test Expo Spec Resu Germ Susp	sure routes ies It <b>cell mutagenicity</b> ected of causing gene <b>ponents:</b>	: Human repea : Skin contact : Humans : negative	at insult patch test (HRIPT)
	ocarbons, C10, aron	: Test Type: In malian cells Result: nega	vitro sister chromatid exchange assay in mam
Geno	otoxicity in vivo	cytogenetic t Species: Rat Application R Result: nega	coute: inhalation (vapour)
	ephos:		
Geno	otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test tive

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ersion 0	Revision Date: 06.04.2024	SDS Number: 10819510-00006	Date of last issue: 27.11.2023 Date of first issue: 21.07.2022
		Test Type: Chro Result: negative	mosome aberration test in vitro
			damage and repair, unscheduled DNA syn- alian cells (in vitro)
Calci	um dodecylbenzen	esulphonate:	
	otoxicity in vitro	: Test Type: Bact Method: OECD Result: negative	erial reverse mutation assay (AMES) Test Guideline 471 d on data from similar materials
			ro mammalian cell gene mutation test
		Result: negative Remarks: Based	, d on data from similar materials
		Method: OECD	mosome aberration test in vitro Test Guideline 473
		Result: negative Remarks: Based	d on data from similar materials
Geno	otoxicity in vivo	cytogenetic ass Species: Mouse Application Rou	te: Ingestion
		Result: negative Remarks: Based	e d on data from similar materials
11 7-0x:	abicyclo[4 1 0]bent-	3-vlmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
	otoxicity in vitro	: Test Type: Bact	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 synalian cells (in vitro)
Geno	otoxicity in vivo	mammalian live Species: Rat Application Rou	te: Ingestion Test Guideline 486

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			Test Type: Micror Species: Mouse Application Route Result: negative	nucleus test : Intraperitoneal injection
			Test Type: Trans say Species: Mouse Application Route Method: OECD T Result: positive	
	n cell mutagenicity- As- ment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
2 6-1	Di-tert-butyl-p-cresol:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
Gen	otoxicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
	inegonicity			
	<b>:inogenicity</b> classified based on availa	hla	information	
	iponents:	able	mormation.	
Tem	ephos:			
Spec	-	:	Rat	
	ication Route	:	Ingestion	
	osure time	:	24 Months	
Resu	ult	:	negative	
		Ime	•	[4.1.0]heptane-3-carboxylate:
Spec		:	Mouse	
	ication Route	÷	Skin contact	
Resi		÷	29 Months negative	
			-	
	Di-tert-butyl-p-cresol:			
Spec	cies	:	Rat	

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ersion .0	Revision Date: 06.04.2024		9S Number: 819510-00006	Date of last issue: 27.11.2023 Date of first issue: 21.07.2022
	cation Route sure time It	:	Ingestion 22 Months negative	
Repr	oductive toxicity			
Not c	lassified based on avai	lable	information.	
Com	ponents:			
Hydr	ocarbons, C10, aroma	atics,	<1% naphthalen	e:
Effec	ts on fertility	:	Species: Rat Application Route Result: negative	e-generation reproduction toxicity study e: inhalation (vapour) on data from similar materials
Effec ment	ts on foetal develop-	:	Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion on data from similar materials
Teme	ephos:			
Effec	ts on fertility	:	Test Type: One- Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effec ment	ts on foetal develop-	:	Test Type: Three Species: Rat Application Route Result: negative	e-generation reproduction toxicity study
II Calci	ium dodecylbenzenes	ulph	onate:	
	ts on fertility	:	Test Type: Comb reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	bined repeated dose toxicity study with the relopmental toxicity screening test e: Ingestion Fest Guideline 422 on data from similar materials
Effec ment	ts on foetal develop-	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	bined repeated dose toxicity study with the relopmental toxicity screening test e: Ingestion Fest Guideline 422 on data from similar materials

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Effec ment	ts on foetal develop-	Species: R Application	Route: Ingestion ECD Test Guideline 414
2 6-D	i-tert-butyl-p-cresol:		
	ts on fertility	Species: R	Route: Ingestion
Effec ment	ts on foetal develop-	Species: R	Route: Ingestion
	<b>Г - single exposure</b> cause drowsiness or diz	ziness	
-	ponents:	2110000.	
		_	
	ocarbons, C10, aroma	· · ·	
Asse Rema	ssment arks		drowsiness or dizziness. ata from similar materials
Caus <u>Com</u> Teme Expo Targe	<b>F - repeated exposure</b> es damage to organs th <b>ponents:</b> <b>ephos:</b> sure routes et Organs ssment	: Ingestion : Nervous sy : Shown to p	
Calci	um dodecylbenzenes	Iphonate:	
Asse	ssment		nt health effects observed in animals at concentra- ) mg/kg bw or less.
<b>7-0</b> x	abicyclo[4.1.0]hept-3-y	-	cyclo[4.1.0]heptane-3-carboxylate:
	sure routes	: Ingestion	
Asse	et Organs ssment		/ roduce significant health effects in animals at con- of >10 to 100 mg/kg bw.
2,6-D	vi-tert-butyl-p-cresol:		
	ssment	: No significa	int health effects observed in animals at concentra-



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II			tions of 100 mg/k	g bw or less.
Repe	ated dose toxicity			
Com	ponents:			
Hydro	ocarbons, C10, aroma	atics	, <1% naphthalene	9:
	EL cation Route sure time		Rat 300 mg/kg Ingestion 13 Weeks Based on data fro	om similar materials
Teme	ephos:			
Speci NOAE LOAE Applic	ies EL		Dog 0.45 mg/kg 12.5 mg/kg Ingestion 90 Days	
Calci	um dodecylbenzenes	ulph	onate:	
	EL cation Route sure time od		Rat > 200 mg/kg Ingestion 6 - 7 Weeks OECD Test Guide Based on data fro	eline 422 om similar materials
	EL cation Route sure time od		Rabbit > 100 mg/kg Skin contact 28 Days OECD Test Guide Based on data fro	eline 410 om similar materials
7-0x;	abicvclo[4.1.0]hept-3-	vlme	thvl 7-oxabicvclo	[4.1.0]heptane-3-carboxylate:
Speci NOAE LOAE Applic	ies EL EL cation Route sure time		Rat 5 mg/kg 50 mg/kg Ingestion 90 Days OECD Test Guide	
2,6-D	i-tert-butyl-p-cresol:			
		:	Rat 25 mg/kg Ingestion 22 Months	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### **Components:**

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

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.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

### 12.1 Toxicity

### **Components:**

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			
Temephos:					
Toxicity to fish	:	LC50 : 0.04 mg/l Exposure time: 96 h			
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 0.000007 mg/l			

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aqua	tic invertebrates		Exposure time: 48	3 h
M-Fa icity)	ctor (Acute aquatic tox-	:	100,000	
M-Fa toxici	ctor (Chronic aquatic ty)	:	100,000	
Oxira	ane, 2-methyl-, polymer	wit	h oxirane, mono(	nonylphenyl) ether:
Toxic	ity to fish	:	LC50 : 82 mg/l Exposure time: 96	3 h
Calci	um dodecylbenzenesu	lph	onate:	
Toxic	ity to fish	:	Exposure time: 96	idus (Golden orfe)): > 1 - 10 mg/l S h on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	nagna (Water flea)): > 1 - 10 mg/l 3 h on data from similar materials
Toxic plants	ity 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
7-Ox	abicyclo[4.1.0]hept-3-y	lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
Тохіс	ity to daphnia and other	:	EC50 (Daphnia m	nagna (Water flea)): 40 mg/l



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aq	uatic invertebrates		Exposure time: 48 Method: OECD Te	
	xicity to algae/aquatic ants	:	ErC50 (Raphidoco 110 mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te	
То	xicity to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	h
2.6	6-Di-tert-butyl-p-cresol:			
	xicity to fish	:	Exposure time: 96	(zebra fish)): > 0.57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	xicity to algae/aquatic ants	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
M- icit	Factor (Acute aquatic tox- ty)	:	1	
То	xicity to microorganisms	:	EC50 : > 10,000 r Exposure time: 3 Method: OECD Te	h
To	xicity to fish (Chronic tox- ty)	:	NOEC: 0.053 mg/ Exposure time: 30 Species: Oryzias Method: OECD To	) d latipes (Japanese medaka)
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)		Exposure time: 21	



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M-Fac toxicit	ctor (Chronic aquatic y)	: 1	
12.2 Persi	stence and degradab	lity	
Comp	oonents:		
Hydro	ocarbons, C10, aroma	tics, <1% naphthalene:	
Biode	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 49.56 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> </ul>	
		r with oxirane, mono(nonylphenyl) ether:	
Biode	gradability	: Result: Not readily biodegradable. Biodegradation: < 70 % Exposure time: 28 d	
Calci	um dodecylbenzenes	ulphonate:	
Biode	gradability	: Result: Readily biodegradable. Remarks: Based on data from similar materials	
7-Oxa	abicyclo[4.1.0]hept-3-y	/Imethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:	
Biode	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 71 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>	
2,6-D	i-tert-butyl-p-cresol:		
Biode	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 4.5 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301C</li> </ul>	
12.3 Bioad	ccumulative potential		
<u>Comp</u>	oonents:		
Teme	phos:		
Bioac	cumulation	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 2,300	
	on coefficient: n- ol/water	: log Pow: 4.91 Method: OECD Test Guideline 107	
Calci	um dodecylbenzenes	ulphonate:	
Bioac	cumulation	: Bioconcentration factor (BCF): < 500 Remarks: Based on data from similar materials	
Partiti	on coefficient: n-	: log Pow: 4.77	
		25 / 32	



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octar	nol/water	Remarks: C	alculation
7-Ox	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabi	cyclo[4.1.0]heptane-3-carboxylate:
	tion coefficient: n- nol/water	: log Pow: 1.3 Method: OE	34 CD Test Guideline 107
2,6-D	)i-tert-butyl-p-cresol:		
Bioad	ccumulation		rprinus carpio (Carp) ration factor (BCF): 330 - 1,800
	tion coefficient: n- nol/water	: log Pow: 5.	1
	<b>ility in soil</b> ata available		
12.5 Resu	ults of PBT and vPvB a	assessment	
	to be either persistent, bioaccumulative		nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
12.6 Endo	ocrine disrupting prop	erties	
Prod	uct:		
	ssment	ered to have REACH Art (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at % or higher.
12.7 Othe	er adverse effects		
No da	ata available		
SECTIO	N 13: Disposal consi	iderations	
13 1 Was	te treatment methods		
Prod		· Dispose of i	n accordance with local regulations.
1150		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.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.



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### **SECTION 14: Transport information**

14.	14.1 UN number or ID number					
	ADN	:	UN 3082			
	ADR	:	UN 3082			
	RID	:	UN 3082			
	IMDG	:	UN 3082			
	ΙΑΤΑ	:	UN 3082			
14.2	2 UN proper shipping name					
	ADN	:	ENVIRONMENTALLY N.O.S.	Y HAZARDOUS SUBSTANCE, LIQUID,		
	ADR	:	ENVIRONMENTALLY N.O.S.	Y HAZARDOUS SUBSTANCE, LIQUID,		
	RID	:	ENVIRONMENTALLY N.O.S.	Y HAZARDOUS SUBSTANCE, LIQUID,		
	IMDG	:	ENVIRONMENTALLY N.O.S. (Temephos, 2,6-Di-te	Y HAZARDOUS SUBSTANCE, LIQUID, rt-butyl-p-cresol)		
	ΙΑΤΑ	:	Environmentally haza	rdous substance, liquid, n.o.s.		
14.:	3 Transport hazard class(es)					
			Class	Subsidiary risks		
	ADN	:	9			
	ADR	:	9			
	RID	:	9			
	IMDG	:	9			
	ΙΑΤΑ	:	9			
14.4	4 Packing group					
	ADN Packing group Classification Code Hazard Identification Number Labels	:	III M6 90 9			
	ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code RID Packing group	:	III M6 90 9 (-) III			

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_	Versio 4.0	on	Revision Date: 06.04.2024		S Number: 319510-00006	Date of last issue: 27.11.2023 Date of first issue: 21.07.2022
	ŀ		cation Code Identification Number	: : :	M6 90 9	
	F	I <b>MDG</b> Packing Labels EmS Co		:	III 9 F-A, S-F	
	F a F F	aircraft)	instruction (cargo instruction (LQ)		964 Y964 III Miscellaneous	
	F G F F	Packing ger airc	instruction (LQ)	: : : :	964 Y964 III Miscellaneous	
	14.5 I	Enviro	nmental hazards			
	E	<b>ADN</b> Environ <b>ADR</b>	mentally hazardous	:	yes	
			mentally hazardous	:	yes	
		<b>RID</b> Environ	mentally hazardous	:	yes	
	-	I <b>MDG</b> Marine	collutant	:	yes	
	14.6 \$	Special	precautions for use	r		

### 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 Maritime transport in bulk according to IMO instruments

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

REACH - Restrictions on the manufacture, placing on	:	Conditions of restriction for the fol-
the market and use of certain dangerous substances,		lowing entries should be considered:
mixtures and articles (Annex XVII)		Number on list 75, 3

Substance(s) or mixture(s) are listed

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## **Temephos Liquid Formulation**

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				in the regulation, use/purpose or the restriction. Please tions in correspond determine whether	o their appearance irrespective of their ne conditions of the e refer to the condi- nding Regulation to er an entry is appli- ng on the market or
					se this product as contact your ven-
	CH - Candidate List of cern for Authorisation (/	Substances of Very High	ı :	Not applicable	
Regu		009 on substances that c	le- :	Not applicable	
Regu		on persistent organic po	llu- :	Not applicable	
Regu ment	lation (EU) No 649/20 and the Council conce	12 of the European Parlia erning the export and imp		Not applicable	
REA	ngerous chemicals CH - List of substances ex XIV)	subject to authorisation	:	Not applicable	
Seve	so III: Directive 2012/1	8/EU of the European Pa plving dangerous substar		and of the Counci	il on the control of
E1		ENVIRONMENTA HAZARDS		Quantity 1 100 t	Quantity 2 200 t
34		Petroleum produc gasolines and nar (b) kerosenes (ind fuels), (c) gas oils ing diesel fuels, h heating oils and g blending streams heavy fuel oils (e) tive fuels serving purposes and with properties as rega flammability and e mental hazards a products referred points (a) to (d)	ohthas, cluding je (includ- ome as oil ),(d) alterna- the same n similar ards environ- s the		25,000 t

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

AICS	:	not determined
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Versior 4.0	n Revision Date: 06.04.2024	SDS Number:Date of last issue: 27.11.202310819510-00006Date of first issue: 21.07.2022
DS	SL	: not determined
IE	csc	: not determined
A Cher	hemical safety assessmen nical Safety Assessment has	not been carried out.
	ther information	: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Fι	Ill text of H-Statements	
	302 304 312 315 317 318 332 336 341 372 373 400 410 411 412 14066	<ul> <li>Harmful if swallowed.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Harmful in contact with skin.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing genetic defects.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Way cause damage to organs through prolonged or repeated exposure.</li> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life with long lasting effects.</li> <li>Toxic to aquatic life with long lasting effects.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
	JH066 Ill text of other abbreviatio	: Repeated exposure may cause skin dryness or cracking.
Ac Ac As Ey Mi Sk St ST IE	cute Tox. quatic Acute quatic Chronic sp. Tox. /e Dam. uta. kin Irrit. kin Sens. FOT RE FOT SE OEL	<ul> <li>Acute toxicity</li> <li>Short-term (acute) aquatic hazard</li> <li>Long-term (chronic) aquatic hazard</li> <li>Aspiration hazard</li> <li>Serious eye damage</li> <li>Germ cell mutagenicity</li> <li>Skin irritation</li> <li>Skin sensitisation</li> <li>Specific target organ toxicity - repeated exposure</li> <li>Specific target organ toxicity - single exposure</li> <li>Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2</li> </ul>
IE	OEL / OELV - 8 hrs (TWA)	



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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

#### Classification of the mixture:

### Classification procedure:

Acute Tox. 4	H332
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
STOT SE 3	H336
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Calculation method
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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.

IE / EN