

## **Dichlofenthion Formulation**

Vers 5.0		Revision Date: 04.04.2023		S Number: 2612-00014	Date of last issue: 01.10.2022 Date of first issue: 14.04.2017	
SEC	TION 1.			NY IDENTIFICATI	ON	
	Product name		:	Dichlofenthion Formulation		
	Manufa	cturer or supplier's d	etai	ls		
	Compa	ny	:	MSD		
	Address	8	:	91-105 Harpin St Bendigo 3550, V		
	Telepho	one	:	1 800 033 461		
	Emerge	ency telephone number	:	Poisons Informati	ion Centre: Phone 13 11 26	
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com	
	Recommended use of the ch		nemi	cal and restrictio	ns on use	
	Recom	mended use	:	Veterinary produc	ct	
	Restrict	ions on use	:	Not applicable		

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

GHS Classification Flammable liquids		Category 3
	•	Outogory o
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Sub-category 1B
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity (Oral)	:	Category 1A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system)
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Nervous system, Respiratory Tract)



ersion 0	Revision Date: 04.04.2023	SDS Nur 1552612		Date of last issue: 01.10.2022 Date of first issue: 14.04.2017
Aspir	ation hazard	: Cate	egory 1	
	label elements rd pictograms	:		
Signa	al word	: Dan	ger	
Haza	rd statements	H30 H30 H31 H33 H34 H35 H36 H37 H37	2 Harmful i 4 May be fa 4 Causes s 7 May caus 5 May caus 1 Suspecte 0 May caus 1d Suspect 0 Causes c 3 May caus	le liquid and vapour. f swallowed. atal if swallowed and enters airways. severe skin burns and eye damage. se an allergic skin reaction. se respiratory irritation. ed of causing genetic defects. se cancer if swallowed. ted of damaging the unborn child. lamage to organs (Nervous system). se damage to organs (Nervous system, Respira- ugh prolonged or repeated exposure.
Supp ments	lemental Hazard State- s	: AUH	1071 Corros	sive to the respiratory tract.
Preca	autionary statements	P20 P20 and P21 and P23 P24 men P24 P24 P24 P24 P26 P27 P27 P27 the v P28	2 Do not ha understood 0 Keep awa other ignitio 3 Keep cor 1 Use explo t. 2 Use non- 3 Take acti 0 Do not br 4 Wash ski 0 Do not ea 1 Use only 2 Contamir workplace.	ay from heat, hot surfaces, sparks, open flame on sources. No smoking. tainer tightly closed. osion-proof electrical/ ventilating/ lighting equip sparking tools. on to prevent static discharges. eathe vapours. n thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. hated work clothing should not be allowed out of tective gloves/ protective clothing/ eye protec-
		P30 Do N CEN P30 imm show	NOT induce ITER/ docto 3 + P361 + ediately all wer. Immed	P331 + P310 IF SWALLOWED: Rinse mouth e vomiting. Immediately call a POISON or. P353 + P310 IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water liately call a POISON CENTER/ doctor. P312 IF INHALED: Remove person to fresh a



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		doctor if you fe P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P311 II CENTER/ doct	and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/ attention				
		<b>Storage:</b> P403 + P235 S P405 Store loc	Store in a well-ventilated place. Keep cool. ked up.				
		of contents/ container to an approved waste					
Othe	r hazards which do n	ot result in classifica	tion				

Vapours may form explosive mixture with air.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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### Components

Chemical name	CAS-No.	Concentration (% w/w)
Tar, wood	91722-33-7	>= 10 -< 30
Rosin	8050-09-7	>= 10 -< 30
Tar, coal	8007-45-2	>= 10 -< 20
Ethylbenzene	100-41-4	>= 1 -< 10
Xylene	1330-20-7	>= 1 -< 10
Dichlofenthion (ISO)	97-17-6	>= 3 -< 10
Sodium hydroxide	1310-73-2	>= 2 -< 3
Phenol	108-95-2	>= 1 -< 3
m-Cresol	108-39-4	>= 1 -< 3
p-Cresol	106-44-5	>= 1 -< 3

#### **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention immediately.</li> </ul>
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention immediately.</li> </ul>



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In ca	se of eye contact	<ul> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> </ul>				
lf swa	allowed	: If swallowed, I If vomiting occ Call a physicia Rinse mouth t	<ul> <li>Get medical attention immediately.</li> <li>If swallowed, DO NOT induce vomiting.</li> <li>If vomiting occurs have person lean forward.</li> <li>Call a physician or poison control centre immediately.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>			
	important symptoms effects, both acute and /ed	: Causes diges Harmful if swa May be fatal if May cause an Causes seriou May cause res Suspected of May cause ca Suspected of Causes dama May cause da exposure.	tive tract burns. allowed. 5 swallowed and enters airways. allergic skin reaction. us eye damage. spiratory irritation. causing genetic defects. ncer if swallowed. damaging the unborn child. ge to organs. image to organs through prolonged or repeated ne respiratory tract.			
Prote	ection of first-aiders	and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).			
Note	s to physician		natically and supportively.			

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.



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	for firefighters Hazchem Code		Use personal protective equipment. •3W			
SECTION	SECTION 6. ACCIDENTAL RELEASE MEASURES					
tive	Personal precautions, protec- tive equipment and emer- gency procedures		Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).			
Envi	Environmental precautions		Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages		
	Methods and materials for containment and cleaning up		Suppress (knock spray jet. For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	s should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.		

#### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
	Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	: Do not get on skin or clothing.
	Do not breathe vapours.
	Do not swallow.
	Do not get in eyes.
	Wash skin thoroughly after handling.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure as- sessment
	Non-sparking tools should be used.
	Keep container tightly closed.
	Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease,
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Hygie	ene measures	<ul> <li>should consult their physician regarding working with respiratory irritants or sensitisers.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Take precautionary measures against static discharges.</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> <li>If exposure to chemical is likely during typical use, provide e flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>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</li> </ul>				
Cond	litions for safe storage	Store locked up Keep tightly clo Keep in a cool, Store in accord	y labelled containers. b. sed. well-ventilated place. ance with the particular national regulations.			
Mater	rials to avoid	<ul> <li>Keep away from heat and sources of ignition.</li> <li>Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides Oxidizing agents</li> <li>Flammable gases</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Poisonous gases</li> <li>Explosives</li> </ul>				

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Rosin	8050-09-7	TWA	0.1 mg/m3 (Formaldehyde)	AU OEL
		TWA (Inhal- able particu- late matter)	0.001 mg/m3 (total Resin acids)	ACGIH
Ethylbenzene	100-41-4	TWA	100 ppm 434 mg/m3	AU OEL
		STEL	125 ppm 543 mg/m3	AU OEL
		TWA	20 ppm	ACGIH



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Xyler	ne		1330-20-7	TWA	80 ppm 350 mg/m3	AU OEL				
				STEL	150 ppm 655 mg/m3	AU OEL				
				TWA	20 ppm	ACGIH				
Dichl	ofenthion (ISO)		97-17-6	TWA	20 µg/m3 (OEB 3)	Internal				
			Further inform	ation: Skin						
				Wipe limit	200 µg/100 cm <sup>2</sup>	Internal				
Sodiu	ım hydroxide		1310-73-2	Peak limit	2 mg/m3	AU OEL				
				С	2 mg/m3	ACGIH				
Phen	ol		108-95-2	TWA	1 ppm 4 mg/m3	AU OEL				
			Further information: Skin absorption							
				TWA	5 ppm	ACGIH				
m-Cr	esol		108-39-4	TWA	5 ppm 22 mg/m3	AU OEL				
			Further inform	ation: Skin abso						
				TWA (Inhal- able fraction and vapor)	20 mg/m3	ACGIH				
p-Cre	esol		106-44-5	TWA	5 ppm 22 mg/m3	AU OEL				
			Further inform	ation: Skin abso						
				TWA (Inhal- able fraction and vapor)	20 mg/m3	ACGIH				

## Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Phenol	108-95-2	Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g Creatinine	ACGIH BEI
Xylene	1330-20-7	Methylhip- puric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g cre- atinine	ACGIH BEI
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI



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E	Engineering measures		<ul> <li>Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).</li> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>Containment technologies suitable for controlling compound are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).</li> <li>Minimize open handling.</li> <li>Use explosion-proof electrical, ventilating and lighting equipment.</li> </ul>				
F	Personal protective equip	oment					
	Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or expo sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type				
	Material	: Cł	Chemical-resistant gloves				
	Remarks			loving. Take note that the product is flam-			
E	Eye protection	: W If t M W pc	<ul> <li>mable, which may impact the selection of hand protection</li> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty condition</li> <li>mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists,</li> </ul>				
S	Skin and body protection :		sk being perforn sable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. egowning techniques to remove potentially			

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Colour	:	dark, brown
Odour	:	strong
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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	Flash p	oint	:	30 °C	
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
	Upper explosion limit / Upper flammability limit		:	No data available	)
	Lower explosion limit / Lower flammability limit		:	No data available	)
	Vapour pressure		:	No data available	9
	Relative vapour density		:	No data available	)
	Relative density		:	No data available	)
	Density		:	1,009 - 1,051 g/c	m³ (20 °C)
	Solubility(ies) Water solubility		:	No data available	)
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decomposition temperature		:	No data available	)
	Viscosi Visc	ty osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition	::	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.



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produ	cts					
SECTION	11. TOXICOLOGICA	LINFO	ORMATION			
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact			
	<b>toxicity</b> ful if swallowed.					
<u>Produ</u>	<u>ict:</u>					
Acute	oral toxicity	:	Acute toxicity estimate: 1,713 mg/kg Method: Calculation method			
Acute	inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method			
Acute	dermal toxicity	:	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method			
Comp	oonents:					
Tar, w	vood:					
Acute	oral toxicity	:	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral to icity</li> </ul>			
Rosin	1:					
Acute	oral toxicity	:	LD50 (Rat): 2,8	300 mg/kg		
Acute	dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity			
Tar, c	oal:					
	oral toxicity	:	LD50 (Rat): 1,7	700 mg/kg		
Acute	dermal toxicity	:	: LD50 (Rabbit): > 5,000 mg/kg			
Ethyll	benzene:					
Acute	oral toxicity	:	LD50 (Rat): 3,5	500 mg/kg		
Acute	inhalation toxicity	:	LC50 (Rat): 17.8 mg/l Exposure time: 4 h Test atmosphere: vapour			
Acute	dermal toxicity	:	LD50 (Rabbit):	> 5,000 mg/kg		



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II		
Xyler	ne:	
	e oral toxicity	: LD50 (Rat): 3,523 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.
Acute	e inhalation toxicity	: LC50 (Rat): 27.571 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute	e dermal toxicity	: LD50 (Rabbit): > 4,200 mg/kg
Dichl	lofenthion (ISO):	
	e oral toxicity	: LD50 (Rat): 172 mg/kg
		LD50 (Rat): 270 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): 1.75 mg/l
Acute dermal toxicity		: LD50 (Rat): 355 mg/kg
		LD50 (Rabbit): 6,000 mg/kg
Sodiu	um hydroxide:	
Acute	e inhalation toxicity	: Assessment: Corrosive to the respiratory tract.
Phen	ol:	
Acute	e oral toxicity	: LD50 (Rat): 650 mg/kg Method: OECD Test Guideline 401
		Acute toxicity estimate (Humans): 140 - 290 mg/kg Method: Expert judgement
Acute	e inhalation toxicity	: LC0 (Rat): 0.9 mg/l
		Exposure time: 8 h Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.
		Acute toxicity estimate (Humans): > 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement
Acute	e dermal toxicity	: LD50 (Rabbit): 660 mg/kg Method: OECD Test Guideline 402
		Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgement
m-Cr	esol:	
Acute	e oral toxicity	: LD50 (Rat): 121 mg/kg Remarks: Based on data from similar materials



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Acute	e inhalation toxicity	:	Assessment: Cor	rosive to the respiratory tract.
Acute	e dermal toxicity	:	LD50 (Rabbit): 3 Remarks: Based	01 mg/kg on data from similar materials
p-Cr	esol:			
Acute	e oral toxicity	:	LD50 (Rat): 172	- 250 mg/kg
Acute	e inhalation toxicity	:	Assessment: Cor	rosive to the respiratory tract.
Acute	e dermal toxicity	:	LD50 (Rabbit): 2	13 - 426 mg/kg
	corrosion/irritation ses severe burns.			
<u>Com</u>	ponents:			
Tar,	wood:			
Spec Meth		:	reconstructed hu OECD Test Guid	man epidermis (RhE) eline 439
Spec Meth	cies lod	:	reconstructed hu OECD Test Guid	man epidermis (RhE) eline 431
Resu	ılt	:	Skin irritation	
Rosi Spec Meth Resu	cies lod	:	Rabbit OECD Test Guid No skin irritation	eline 404
Tar,	coal:			
Spec Resu		:	Rabbit Mild skin irritatior	I
Xyle	ne:			
Spec Resu		:	Rabbit Skin irritation	
Dich	lofenthion (ISO):			
Resu	ult	:	Mild skin irritation	
Rem	arks	:	Based on data fro	om similar materials
Sodi Resu	um hydroxide: <sup>Ilt</sup>	:	Corrosive after 3	minutes or less of exposure
Pher		:	Rabbit	



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Resu	lt	: Corrosive afte	er 3 minutes to 1 hour of exposure
m-Cr	esol:		
Speci Resu	ies It	: Rabbit : Corrosive afte	er 3 minutes to 1 hour of exposure
p-Cre	esol:		
Speci Resu		: Rabbit : Corrosive afte	er 3 minutes to 1 hour of exposure
	ous eye damage/eye i		
	es serious eye damag ponents:	le.	
	wood:		
Resu		: Irritation to ey	es, reversing within 7 days
Rosi	n:		
Speci Resu		: Rabbit : No eye irritatio	20
Metho		: OECD Test G	
Tar, c			
Speci Resu		: Human : Irreversible ef	fects on the eye
Xyler	ne:		
Speci Resu		: Rabbit : Irritation to ey	es, reversing within 21 days
Sodiu	um hydroxide:		
Resu Rema		: Irreversible ef : Based on skir	fects on the eye a corrosivity.
Phen	ol:		
Speci Resu		: Rabbit	fects on the eye
Metho		: OECD Test G	
m-Cr			
Speci Resu		: Rabbit : Irreversible ef	fects on the eye
p-Cre		<b>2</b>	
Speci Resu		: Rabbit : Irreversible ef	fects on the eye
			-



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Respi	ratory or skin sensi	tisation	
Skin s	ensitisation		
May ca	ause an allergic skin	reaction.	
Respi	ratory sensitisation	I	
-	assified based on ava		
<u>Comp</u>	onents:		
Tar, w	vood:		
Test T			ode assay (LLNA)
	ure routes	: Skin contact	
Specie		: Mouse : OECD Test Gu	videline 400
Metho Result		: positive	
Integrat		. poolito	
Asses	sment	: Probability or e rate in humans	evidence of low to moderate skin sensitisation
Rosin	:		
Test T	vpe	: Local lymph no	ode assay (LLNA)
	ure routes	: Skin contact	
Specie		: Mouse	
Metho	d	: OECD Test G	uideline 429
Result		: negative	
Tar, co	oal:		
Test T	ype	: Local lymph no	ode assay (LLNA)
	ure routes	: Skin contact	,
Specie	es	: Mouse	
Metho	d	: OECD Test G	uideline 429
Result		: positive	
Rema	rks	: Based on data	from similar materials
Asses	sment	: Probability or e	evidence of skin sensitisation in humans
Xylen	e:		
Test T	уре		ode assay (LLNA)
	ure routes	: Skin contact	
Specie		: Mouse	
Result		: negative	
Dichlo	ofenthion (ISO):		
Expos	ure routes	: Dermal	
Asses	sment		e skin sensitisation.
Result		: Weak sensitize	
Rema	rks	: Based on data	from similar materials
Sodiu	m hydroxide:		
Test T	-	: Human repeat	insult patch test (HRIPT)
			· · · · · · · · · · · · · · · · · · ·



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Resul	t	:	negative	
Phene Test T Expos Specie Metho Result	⊽pe sure routes es od		Buehler Test Skin contact Guinea pig OECD Test Guide negative	eline 406
<b>p-Cre</b> Test T Expos Specie Result	⊽pe sure routes es	:	Draize Test Skin contact Guinea pig negative	
Chror	nic toxicity			
Suspe	cell mutagenicity ected of causing genetic conents:	c def	ects.	
Tar, w Genot	<b>rood:</b> toxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
Rosin Genot	i: toxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	rial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Method: OECD T Result: negative	o mammalian cell gene mutation test est Guideline 476
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
Tar, c				
Genot	toxicity in vitro	:	Method: OECD To Result: positive	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials
	cell mutagenicity - sment	:	mutagenicity tests mutagenicity assa	from in vivo non-mammalian somatic cell s, supported by positive results from in vitro ays. on national or regional regulation.



ersion 0	Revision Date: 04.04.2023	SDS Num 1552612-			
Ethyl	benzene:				
Geno	toxicity in vitro		Type: Bacterial reverse mutation assay (AMES) t: negative		
		Metho	Type: In vitro mammalian cell gene mutation test od: OECD Test Guideline 476 t: negative		
			Type: Chromosome aberration test in vitro t: negative		
Geno	toxicity in vivo	mamr Speci Applic Metho	Type: Unscheduled DNA synthesis (UDS) test with nalian liver cells in vivo es: Mouse cation Route: Inhalation od: OECD Test Guideline 486 t: negative		
Xyler	ne:				
Geno	toxicity in vitro		Type: Bacterial reverse mutation assay (AMES) t: negative		
			Type: Chromosome aberration test in vitro t: negative		
			Type: In vitro mammalian cell gene mutation test t: negative		
		maliar	Гуре: In vitro sister chromatid exchange assay in mam n cells t: negative		
Geno	toxicity in vivo	Speci Applic	Type: Rodent dominant lethal test (germ cell) (in vivo) es: Mouse cation Route: Skin contact t: negative		
Phen	ol:				
Geno	toxicity in vitro	Metho	Type: Chromosome aberration test in vitro od: OECD Test Guideline 473 t: positive		
Geno	toxicity in vivo	cytoge Speci Applic Metho Resul	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive Remarks: Annex VI From 1272/2008		
	cell mutagenicity -		ve result(s) from in vivo mammalian somatic cell muta-		



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m-Cr	esol:			
	toxicity in vitro	M		osome aberration test in vitro est Guideline 473
		M		ial reverse mutation assay (AMES) est Guideline 471
Geno	toxicity in vivo	cy Sp Ap	togenetic test, c becies: Mouse oplication Route	enicity (in vivo mammalian bone-marrow chromosomal analysis) : Ingestion est Guideline 475
p-Cre	esol:			
	toxicity in vitro	M		osome aberration test in vitro est Guideline 473
		M		e mammalian cell gene mutation test est Guideline 476
Geno	toxicity in vivo	Sp Ap M	pecies: Mouse	t dominant lethal test (germ cell) (in vivo) : Ingestion est Guideline 478
II Carci	inogenicity			
	cause cancer if swallov	ved.		
Com	ponents:			
Tar, o	coal:			
Spec			ouse	
Appli	cation Route sure time		gestion Years	
Resu			sitive	
Carci ment	nogenicity - Assess-			from human epidemiological studies (oral) on national or regional regulation.
Ethyl	benzene:			
Spec		: Ra		
	cation Route sure time		nalation (vapour 4 weeks	)
Resu	lt	: рс	sitive	
Rema	arks		ie mechanism o ans.	r mode of action may not be relevant in hu-



Version 5.0	Revision Date: 04.04.2023		S Number: 52612-00014	Date of last issue: 01.10.2022 Date of first issue: 14.04.2017
Xyle Spec Appli Expo Resu	cies ication Route osure time	:	Rat Ingestion 103 weeks negative	
	cies ication Route osure time iod		Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
Spec Appli	ication Route osure time ılt	:	Mouse, males Ingestion 105 weeks equivocal Based on data fro	m similar materials
Expo Resu Rem	ication Route osure time ult arks	:		m similar materials
Carc ment	inogenicity - Assess-	:	Weight of evidenc cinogen	e does not support classification as a car-
	cies ication Route osure time ılt	:	Mouse Ingestion 106 - 107 weeks negative Based on data fro	m similar materials
Susp	roductive toxicity bected of damaging the u	unbor	n child.	
	ponents:			
Rosi Effec	n: cts on fertility	:		
Effec ment	ets on foetal develop-	:	Test Type: Embry Species: Rat Application Route	o-foetal development : Ingestion



rsion	Revision Date: 04.04.2023	SDS Number: 1552612-00014	Date of last issue: 01.10.2022 Date of first issue: 14.04.2017
		Method: OECD Result: negativ	Test Guideline 414 e
Ethyll	benzene:		
Effect	s on fertility	Species: Rat Application Rot	e-generation reproduction toxicity study ute: inhalation (vapour) Test Guideline 416 e
Effect ment	s on foetal develop-	Species: Rat Application Rot	Test Guideline 414
Xylen	e:		
	s on fertility	Species: Rat	e-generation reproduction toxicity study ute: inhalation (vapour) e
Effect ment	s on foetal develop-	Species: Rat	oryo-foetal development ute: inhalation (vapour) e
Dichle	ofenthion (ISO):		
	s on foetal develop-	Developmental Result: Reduce	e ute: Intraperitoneal Toxicity: LOAEL: 80 mg/kg body weight d foetal weight, Embryotoxic effects. d on data from similar materials
		Species: Rat Application Rou Developmental Result: Reduce togenic effects	ute: Intraperitoneal Toxicity: LOAEL: 10 mg/kg body weight of foetal weight, Embryotoxic effects., No ter of on data from similar materials
Repro sessm	oductive toxicity - As- nent	: Suspected of d	amaging the unborn child.
Phene			
Effect	s on fertility	Species: Rat Application Rot	Test Guideline 416



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Effect ment	ts on foetal develop-	:	Species: Mouse Application Route	vo-foetal development e: Ingestion fest Guideline 414
m-Cr	esol:			
Effect	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effect ment	ts on foetal develop-	:	Test Type: Prena Species: Rat Application Route Result: negative	tal development toxicity study (teratogenicity) e: Ingestion
p-Cre	sol:			
	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	peneration reproduction toxicity study e: Ingestion
Effect ment	ts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development e: Ingestion
II STOT	「- single exposure			
May o Cause	cause respiratory irritati es damage to organs (I sive to the respiratory t	Vervo	ous system).	
Com	ponents:			
Targe	c <b>oal:</b> sure routes et Organs ssment	:		e significant health effects in animals at con- ) mg/kg bw or less.
Xyler	ne:			
Asses		:	May cause respir	atory irritation.
May o	<b>- repeated exposure</b> cause damage to organ posure.	ıs (N	ervous system, Re	spiratory Tract) through prolonged or repeat-
<u>Com</u>	ponents:			
Tar, c	coal:			
Targe	et Organs	:	Respiratory Tract	



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Asses	ssment		duce significant health effects in animals at con->0.02 to 0.2 mg/l/6h/d.
Targe	sure routes et Organs ssment		
Ethyl	benzene:		
Targe	sure routes et Organs ssment		
Xylen	ie:		
Targe	sure routes et Organs ssment		
Dichl	ofenthion (ISO):		
Targe Asses Rema	et Organs ssment	exposure.	m ge to organs through prolonged or repeated nan experience.
I tomo			
Phen	-		
	et Organs ssment		us system, Kidney, Liver, Skin mage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Rosir	1:		
Speci NOAE		: Rat, male : 335 mg/kg	
Applic	cation Route	: Ingestion	
Expos Metho	sure time od	: 90 Days : OECD Test G	uideline 408
Ethyl	benzene:		
Speci	es	: Rat	
LOAE	:L cation Route	: 0.868 mg/l : inhalation (var	oour)
	sure time	: 13 Weeks	,
Speci		: Rat	
NOAE	EL	: 75 mg/kg : 250 mg/kg	
			0
		21/3	2



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Applic Metho	cation Route od	: Ingestion : OECD Test Gu	ideline 408
Expos Rema Specie LOAE Applic	es EL cation Route sure time ırks es	<ul> <li>Rat</li> <li>&gt; 0.2 - 1 mg/l</li> <li>inhalation (vapolicity)</li> <li>13 Weeks</li> <li>Based on data</li> <li>Rat</li> <li>150 mg/kg</li> <li>Ingestion</li> <li>90 Days</li> </ul>	our) from similar materials
Specie NOAE Applic		: Rat : 0.75 mg/kg : Oral : 90 d	
		: Dog : 0.75 mg/kg : Oral : 90 d	
Pheno Specia LOAE Applic Expos Metho	es L cation Route sure time	: Rat : 300 mg/kg : Ingestion : 90 Days : OECD Test Gu	ideline 408
		: Rat : >= 0.1 mg/l : inhalation (vapo : 74 Days	bur)
		: Rabbit : 260 mg/kg : Skin contact : 18 Days	
	es EL cation Route sure time	: Rat : 150 mg/kg : Ingestion : 13 Weeks : OECD Test Gu	ideline 408

p-Cresol:



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5.0	04.04.2023		52612-00014	Date of first issue: 14.04.2017
Species NOAEL LOAEL Applica Exposu Methoo	- ition Route ire time	:	Rat 50 mg/kg 175 mg/kg Ingestion 90 Days OECD Test Guide	eline 408

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

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.

#### **Components:**

#### Ethylbenzene:

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.

#### Xylene:

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

#### Experience with human exposure

#### **Components:**

#### **Dichlofenthion (ISO):**

Skin contact	:	Symptoms: irritating, central nervous system effects, sweating Remarks: Can be absorbed through skin. May cause sensitisation by skin contact.
Eye contact	:	Symptoms: constriction of pupils, central nervous system effects
Ingestion	:	Symptoms: Nausea, Diarrhoea, Vomiting, sweating, Lachry- mation, constriction of pupils, Central nervous system depres- sion, Gastrointestinal disturbance, bronchospasm, central nervous system effects, Oedema

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Components:

# Tar, wood:Toxicity to daphnia and other<br/>aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 28 mg/l<br/>Exposure time: 48 h<br/>Method: OECD Test Guideline 202Toxicity to algae/aquatic<br/>plants:EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l<br/>Exposure time: 72 h<br/>Method: OECD Test Guideline 201



ersion )	Revision Date: 04.04.2023	-	0S Number: 52612-00014	Date of last issue: 01.10.2022 Date of first issue: 14.04.2017
			EC10 (Desmodes Exposure time: 72 Method: OECD T	
Rosin	:			
Toxici	ty to fish	:	Exposure time: 96 Test substance: V Method: OECD T	Vater Accommodated Fraction
	ty to daphnia and other c invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxicit plants	ty to algae/aquatic	:	1,000 mg/l Exposure time: 72	Vater Accommodated Fraction
			1,000 mg/l Exposure time: 72	Vater Accommodated Fraction
Toxici	ty to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD T	
Tar, c	oal:			
	ty to fish	:	Exposure time: 96 Test substance: V Method: OECD T	Vater Accommodated Fraction
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Test substance: W Method: OECD T	Vater Accommodated Fraction
Toxicit plants	ty to algae/aquatic	:	Exposure time: 72 Method: OECD T	
			NOELR (Desmod Exposure time: 72 Method: OECD T	



/ersion 6.0	Revision Date: 04.04.2023		OS Number: 52612-00014	Date of last issue: 01.10.2022 Date of first issue: 14.04.2017
			Remarks: Based	on data from similar materials
Ethyl	benzene:			
Toxic	ity to fish	:	Exposure time: 9	hus mykiss (rainbow trout)): 4.2 mg/l 6 h est Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 1.8 - 2.4 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 9	chneriella subcapitata (green algae)): 3.6 6 h
			NOEC (Pseudoki mg/l Exposure time: 9	rchneriella subcapitata (green algae)): 3.4 6 h
aquat	ic invertebrates (Chron-	:	NOEC (Ceriodap Exposure time: 7	hnia dubia (water flea)): 0.96 mg/l d
ic toxi Toxic	ity to microorganisms	:	EC50 (Nitrosomo Exposure time: 24	
Xylen	ie:			
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 13.5 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	Exposure time: 24 Method: OECD T	nagna (Water flea)): > 1 - 10 mg/l 4 h est Guideline 202 on data from similar materials
Toxic plants		:	EC50 (Skeletone Exposure time: 72	ma costatum (marine diatom)): 10 mg/l 2 h
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3 Method: OECD T	io (zebra fish)): > 0.1 - < 1 mg/l 5 d est Guideline 210 on data from similar materials
	ic invertebrates (Chron-	:	Exposure time: 2 Method: OECD T	agna (Water flea)): > 1 - 10 mg/l 1 d est Guideline 211 on data from similar materials
Toxic	ity to microorganisms	:		
II Dichl	ofenthion (ISO):			
	ity to fish	:	LC50 (No species	s specified): 0.64 mg/l



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			Exposure time: 9 Method: OECD T	6 h est Guideline 203
			Exposure time: 9	nacrochirus (Bluegill sunfish)): 1.23 mg/l 5 h est Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 0.0011 mg/l 3 h est Guideline 202
II Phen	ol:			
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 90	s promelas (fathead minnow)): 24.9 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 44	nia dubia (water flea)): 3.1 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	EC50 (Selenastru Exposure time: 90	im capricornutum (green algae))։ 61.1 mg ծ h
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0.077 mg Exposure time: 6	
aquat	ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 10	magna (Water flea)): 10 mg/l 5 d
ic tox Toxic	ity) ity to microorganisms	:	IC50 (Nitrosomor Exposure time: 24	
II m-Cr	esol:			
Тохіс	ity to fish	:	LC50 (Oncorhynd Exposure time: 90	hus mykiss (rainbow trout)): 8.6 mg/l δ h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia p Exposure time: 44	ulex (Water flea)): > 99.5 mg/l 3 h
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 32	es promelas (fathead minnow)): 1.35 mg/l 2 d on data from similar materials
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 1 mg/l 1 d on data from similar materials
II p-Cre	sol.			
	ity to fish	:	LC50 (Oncorhynd Exposure time: 90	chus mykiss (rainbow trout)): 7.4 mg/l ວິ h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 4 Method: DIN 384	



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	Toxicity to algae/aquatic plants		EC50 (Desmodes Exposure time: 48	smus subspicatus (green algae)): 7.8 mg/l 3 h
			EC10 (Desmodes Exposure time: 48	smus subspicatus (green algae)): 2.3 mg/l 3 h
To icit	xicity to fish (Chronic tox- ty)	:	NOEC (Pimephal Exposure time: 32	es promelas (fathead minnow)): 1.35 mg/l 2 d
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia r Exposure time: 2 <sup>2</sup>	magna (Water flea)): 1 mg/l 1 d
	xicity to microorganisms	:	IC50 (Nitrosomonas sp.): 260 mg/l Exposure time: 24 h	
Pe	rsistence and degradabili	ity		
<u>Cc</u>	omponents:			
Та	r, wood:			
Bio	odegradability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	47 %
Ro	osin:			
Bio	odegradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	71 %
Et	hylbenzene:			
	odegradability	:	Result: Readily bi Biodegradation: Exposure time: 28	70 - 80 %
Ху	lene:			
Bio	odegradability	:		> 70 %
Ph	enol:			
Bio	odegradability	:	Result: Readily bi Biodegradation: ( Exposure time: 10 Method: OECD T	62 %
m-	Cresol:			
Bio	odegradability	:	Result: Readily bi	odegradable.
			27/22	



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			Biodegradation: 9 Exposure time: 28 Method: OECD T	
p-Cre	esol:			
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 8 d	
Bioad	ccumulative potential			
Com	ponents:			
Tar. v	wood:			
Partit	ion coefficient: n- ol/water	:	log Pow: 0.2 - 2.0	2
Rosii	n:			
	ion coefficient: n- ol/water	:	log Pow: > 3 - 6.2 Method: OECD T	
	<b>coal:</b> ion coefficient: n- ol/water	:	Remarks: No data	a available
Partit	<b>benzene:</b> ion coefficient: n- ol/water	:	log Pow: 3.6	
Xyler	ne:			
	ion coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcula	tion
Dichl	ofenthion (ISO):			
Partit	ion coefficient: n- ol/water	:	log Pow: 5.14	
Phen	ol:			
Bioac	ccumulation	:	Species: Fish Bioconcentration Method: OECD T	factor (BCF): 17.5 est Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 1.47	
m-Cr	esol:			
Bioac	cumulation	:		us idus (Golden orfe) factor (BCF): 17 - 20
	ion coefficient: n- ol/water	:	log Pow: 1.96	
p-Cre	esol:			
Bioac	cumulation	:	Species: Leuciscu	us idus (Golden orfe)



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			on factor (BCF): 17 - 20 ed on data from similar materials	
	ion coefficient: n- nol/water	: log Pow: 1.94		
	<b>lity in soil</b> ata available			
	<b>r adverse effects</b> ata available			
SECTION	13. DISPOSAL CON	SIDERATIONS		
Disp	osal methods			
Wast	e from residues	•	ccordance with local regulations.	

	Do not dispose of waste into sewer.	
Contaminated packaging	: Empty containers should be taken to an approve	ed waste han-
	dling site for recycling or disposal.	
	Empty containers retain residue and can be dar	gerous.
	Do not pressurize, cut, weld, braze, solder, drill,	grind, or ex-
	pose such containers to heat, flame, sparks, or	other sources
	of ignition. They may explode and cause injury a	and/or death.
	If not otherwise specified: Dispose of as unused	product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG UN number Proper shipping name II Class Subsidiary risk Packing group Labels	:	UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene) 8 3 II 8 (3)
IATA-DGR UN/ID No. Proper shipping name II Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 2920 Corrosive liquid, flammable, n.o.s. (Sodium hydroxide, Ethylbenzene) 8 3 II Corrosive, Flammable Liquids 855 851
IMDG-Code UN number Proper shipping name Class	:	UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene, Dichlofenthion (ISO)) 8



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Pack Labe EmS	idiary risk ing group Is Code ne pollutant	: 3 : II : 8(3) : F-E, S-C : yes	
	sport in bulk accordi	-	ARPOL 73/78 and the IBC Code
Natio	onal Regulations		
Prope II Class Subs Pack Labe	umber er shipping name s idiary risk ing group		LIQUID, FLAMMABLE, N.O.S. oxide, Ethylbenzene)
Spec	ial precautions for u	ser	
base	d upon the properties	of the unpackaged m	e for informational purposes only, and solely aterial as it is described within this Safety Data

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.

#### **SECTION 15. REGULATORY INFORMATION**

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

Prohibition/Licensing Requirer	mer	nts :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
The components of this pro-	duc	t are reported in the foll not determined	lowing inventories:
AICS	•	not determined	
DSL	:	not determined	
IECSC	:	not determined	

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

Further information		
Revision Date Sources of key data used to compile the Safety Data Sheet	:	04.04.2023 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/



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

Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH ACGIH BEI AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Australia. Workplace Exposure Standards for Airborne Con- taminants.			
ACGIH / TWA ACGIH / C AU OEL / TWA AU OEL / STEL AU OEL / Peak limit		8-hour, time-weighted average Ceiling limit Exposure standard - time weighted average Exposure standard - short term exposure limit Exposure standard - peak			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text.



## **Dichlofenthion Formulation**

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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.

AU / EN