

according to the OSHA Hazard Communication Standard

Dichlofenthion Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
7.1	09/28/2024	1552594-00016	Date of first issue: 04/14/2017

SECTION 1. IDENTIFICATION

Product name	:	Dichlofenthion Formulation				
Manufacturer or supplier's	deta	ails				
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065				
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com				
Recommended use of the chemical and restrictions on use						
Recommended use Restrictions on use	:	Veterinary product Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Flammable liquids	:	Category 3		
Acute toxicity (Oral)	:	Category 4		
Skin corrosion	:	Category 1B		
Serious eye damage	:	Category 1		
Skin sensitization	:	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 1 (Nervous system)		
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system, Kidney, Liver, Skin, Res- piratory Tract, Auditory system)		
Aspiration hazard	:	Category 1		

GHS label elements



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Haza	rd pictograms					
Signa	al Word	: Danger				
Haza	rd Statements	H302 Harmful i H304 May be fa H314 Causes s H317 May caus H335 May caus H341 Suspecte H350 May caus H361d Suspec H370 Causes o prolonged or re H373 May caus Kidney, Liver, S	 H226 Flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer if swallowed. H361d Suspected of damaging the unborn child. H370 Causes damage to organs (Nervous system). H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure. H373 May cause damage to organs (Central nervous system, Kidney, Liver, Skin, Respiratory Tract, Auditory system) through prolonged or repeated exposure. 			
Preca	autionary Statements	P202 Do not ha and understood P210 Keep awa es. No smoking P233 Keep cor P241 Use expla- equipment. P242 Use only P243 Take pre- P260 Do not br P264 Wash ski P270 Do not ea P271 Use only P272 Contamir the workplace. P280 Wear pro- and face proteo	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks, open flame and hot surfaces. No smoking. P233 Keep container tightly closed. P241 Use explosion-proof electrical, ventilating and lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of 			
		P301 + P330 + Do NOT induce P303 + P361 + immediately all Immediately ca P304 + P340 + and keep comf CENTER.	 P331 + P310 IF SWALLOWED: Rinse mouth. vomiting. Immediately call a POISON CENTER. P353 + P310 IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water. II a POISON CENTER. P310 IF INHALED: Remove person to fresh air ortable for breathing. Immediately call a POISON P338 + P310 IF IN EYES: Rinse cautiously with 			





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		and easy to do CENTER. P307 + P311 IF P333 + P313 If tion.	al minutes. Remove contact lenses, if present . Continue rinsing. Immediately call a POISON ⁼ exposed: Call a doctor. skin irritation or rash occurs: Get medical atten- ntaminated clothing before reuse.		
		Storage: P403 + P235 Store in a well-ventilated place. Keep co P405 Store locked up.			
		Disposal: P501 Dispose of contents and container to an approved was disposal plant.			
Othe	r hazards				

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture	
Components		
Chemical name	CAS-No.	Concentration (% w/w)
Tar, wood	91722-33-7	>= 10 - < 20
Rosin	8050-09-7	>= 10 - < 20
Castor oil	8001-79-4	>= 10 - < 20
Tar, coal	8007-45-2	>= 10 - < 20
Ethylbenzene	100-41-4	>= 5 - < 10
Xylene	1330-20-7	>= 5 - < 10
Dichlofenthion (ISO)	97-17-6	>= 1 - < 5
Sodium hydroxide	1310-73-2	>= 2 - < 5
Phenol	108-95-2	>= 1 - < 3
m-Cresol	108-39-4	>= 1 - < 5
p-Cresol	106-44-5	>= 1 - < 5
Actual concentration is withhe	eld as a trade secret	

SECTION 4. FIRST AID MEASURES

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



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In case of eye contact		 Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. 				
If swallowed		 Get medical attention immediately. If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 				
Most important symptoms and effects, both acute and delayed		 May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer if swallowed. Suspected of damaging the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Causes severe burns. Causes digestive tract burns. 				
Prote	ection of first-aiders	: First Aid respo and use the real	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).			
Note	s to physician		atically and supportively.			

SECTION 5. FIRE-FIGHTING 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. Vapors 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.



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				Evacuate area.	
	Special protective equipment for fire-fighters		:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECT	ION 6.	ACCIDENTAL RELE	ASI	E MEASURES	
ti	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 protective equipment recommendations (see section 8).	
E	Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spr jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materi can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and item employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regardin certain local or national 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 vapors.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety



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		practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.				
Conditions for safe storage		: Keep in properl Store locked up Keep tightly clo Keep in a cool, Store in accord	sed. well-ventilated place. ance with the particular national regulations.			
Materials to avoid		: Do not store wi Strong oxidizing Self-reactive su Organic peroxic Flammable soli Pyrophoric liqui Pyrophoric solic Self-heating su Substances and flammable gase Explosives Gases				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Rosin	8050-09-7	TWA (Inhal-	0.001 mg/m ³	ACGIH
		able particu-	(total Resin acids)	
		late matter)		
		TWA	0.1 mg/m ³	NIOSH REL
			(Formaldehyde)	
Castor oil	8001-79-4	TWA (mist -	10 mg/m ³	NIOSH REL
		total)		
		TWA (mist -	5 mg/m³	NIOSH REL
		respirable)		
Tar, coal	8007-45-2	PEL	0.15 mg/m ³	OSHA CARC
		TWA	0.2 mg/m ³	NIOSH REL
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH



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			TWA	100 ppm 435 mg/m³	NIOSH REL
			ST	125 ppm 545 mg/m ³	NIOSH REL
			TWA	100 ppm 435 mg/m ³	OSHA Z-1
Xylen	Xylene	1330-20-7	TWA	100 ppm 435 mg/m ³	OSHA Z-1
			TWA	20 ppm	ACGIH
Dichle	ofenthion (ISO)	97-17-6	TWA	20 µg/m3 (OEB 3)	Internal
		Further inform	ation: Skin	· · · · · · ·	
			Wipe limit	200 µg/100 cm ²	Internal
Sodiu	ım hydroxide	1310-73-2	С	2 mg/m ³	ACGIH
	•		С	2 mg/m ³	NIOSH RE
			TWA	2 mg/m ³	OSHA Z-1
Phen	ol	108-95-2	TWA	5 ppm	ACGIH
			TWA	5 ppm 19 mg/m ³	NIOSH REI
			С	15.6 ppm 60 mg/m ³	NIOSH REI
			TWA	5 ppm 19 mg/m ³	OSHA Z-1
m-Cre	esol	108-39-4	TWA	2.3 ppm 10 mg/m ³	NIOSH REI
			TWA	5 ppm 22 mg/m ³	OSHA Z-1
			TWA (Inhal- able fraction and vapor)	20 mg/m ³	ACGIH
p-Cre	esol	106-44-5	TWA	2.3 ppm 10 mg/m ³	NIOSH REI
			TWA	5 ppm 22 mg/m ³	OSHA Z-1
			TWA (Inhal- able fraction and vapor)	20 mg/m ³	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	Methylhippu ric acids	Urine	End of shift (As soon as possible	0.3 g/g creatinine	ACGIH BEI



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					after exposure ceases)		
Ethylb	benzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	150 mg/g creatinine	ACGIH BEI
Engin	eering measures	te Al de pr Cu ar th cc	se appropriate chnologies to ss quick conne l engineering of esign and oper otect products ontainment teo e required to de e compound to ontainment dev inimize open h	control airbor ections). controls shou ated in accor , workers, an chnologies su control at sou o uncontrolled vices).	ne concentr Id be impler dance with d the enviro itable for co rce and to p	rations (e.g., nented by fac GMP principl onment. ntrolling com revent migra	drip- cility es to pounds
			se explosion-p quipment.	roof electrica	l, ventilating	and lighting	
Perso	onal protective equ	ipment					
	ratory protection	m cc ur Fc us by ha su re ciu	eneral and loc aintain vapor e oncentrations a oknown, appro ollow OSHA re se NIOSH/MSI v air purifying r azardous chen upplied respira lease, exposu rcumstance wi dequate protect	exposures be are above rec priate respira spirator regu HA approved espirators ag nical is limited tor if there is re levels are nere air purify	low recommended commended tory protect lations (29 C respirators. ainst expos d. Use a pos any potentia unknown, o	nended limits limits or are ion should be CFR 1910.13 Protection p ure to any ure to any sitive pressure al for uncontro r any other	Where worn. 4) and rovided e air olled
Hand	protection						
Ma	aterial	: CI	hemical-resista	ant gloves			
Re	emarks	fla	onsider double ammable, whic otection.				6
Eye p	rotection	: W If m W po	ear safety glas the work envir ists or aerosol ear a faceshie otential for dire	onment or ac s, wear the a eld or other fu	tivity involve ppropriate g Il face prote	es dusty conc oggles. ction if there	is a
Skin a	and body protection	: W	erosols. 'ork uniform or dditional body			d based upor	the



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Hygiei	ne measures	Use appropriate contaminated clo If exposure to ch eye flushing syst working place. When using do r Contaminated w workplace. Wash contamina The effective op engineering cont appropriate dego	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Color	:	dark, brown
Odor	:	strong
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	86 °F / 30 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
	:	No data available No data available
flammability limit		



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Densit	у	:	1,009 - 1,051 g/c	m³ (68 °F / 20 °C)				
	lity(ies) ter solubility	:	No data available	9				
	Partition coefficient: n- octanol/water		: Not applicable					
	nition temperature	:	9					
Decom	nposition temperature	:	No data available	9				
Viscos Vis	ity cosity, kinematic	:	No data available	9				
Explos	ive properties	:	Not explosive					
Oxidizi	ing properties	:	The substance o	r mixture is not classified as oxidizing.				
Particle Particle	e characteristics e 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 vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes	of	exposure
Inhalation		
Skin contact Ingestion		
Eye contact		
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,450 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor



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ersion .1	Revision Date: 09/28/2024	SDS Number: 1552594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
		Method: Ca	Iculation method
Acute	dermal toxicity		ty estimate: 3,724 mg/kg Iculation method
Comp	onents:		
Tar, w	vood:		
Acute	oral toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 423 t: The substance or mixture has no acute oral tox
Rosin	:		
Acute	oral toxicity	: LD50 (Rat):	2,800 mg/kg
Acute	dermal toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute dermal
Casto	r oil:		
Acute	oral toxicity		> 4,763 mg/kg CD Test Guideline 401
Acute	dermal toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 402 ased on data from similar materials
Tar, c	oal:		
Acute	oral toxicity	: LD50 (Rat):	1,700 mg/kg
Acute	dermal toxicity	: LD50 (Rabb	bit): > 5,000 mg/kg
Ethyll	penzene:		
Acute	oral toxicity	: LD50 (Rat):	3,500 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure ti Test atmos	
Acute	dermal toxicity	: LD50 (Rabb	bit): > 5,000 mg/kg
Xylen	e:		
Acute	oral toxicity		3,523 mg/kg rective 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	Exposure ti	27.571 mg/l me: 4 h phere: vapor



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Acute	e dermal toxicity	: LD50 (Rabbi	t): > 4,200 mg/kg
	lofenthion (ISO):	: LD50 (Rat):	172 mg/kg
		LD50 (Rat): 2	
Acute	e inhalation toxicity	: LC50 (Rat):	
	e dermal toxicity	: LD50 (Rat): 3	-
rioute			t): 6,000 mg/kg
			i). 0,000 mg/kg
	um hydroxide:		O
Acute	e inhalation toxicity	: Assessment	Corrosive to the respiratory tract.
Phen	ol:		
Acute	e oral toxicity	: LD50 (Rat): (Method: OE0	650 mg/kg CD Test Guideline 401
			/ estimate (Humans): 140 - 290 mg/kg ert judgment
Acute	e inhalation toxicity		
		Exposure tim	here: dust/mist
Acute	e dermal toxicity	: LD50 (Rabbi Method: OE0	t): 660 mg/kg CD Test Guideline 402
			/ estimate (Humans): 300 mg/kg ert judgment
m-Cr	esol:		
	e oral toxicity	: LD50 (Rat): Remarks: Ba	121 mg/kg used on data from similar materials
Acute	e inhalation toxicity	: Assessment	Corrosive to the respiratory tract.
Acute	e dermal toxicity	: LD50 (Rabbi Remarks: Ba	t): 301 mg/kg Ised on data from similar materials

p-Cresol:



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Acut	e oral toxicity	:	LD50 (Rat): 172 -	- 250 mg/kg
Acut	e inhalation toxicity	:	Assessment: Cor	rosive to the respiratory tract.
Acut	e dermal toxicity	:	LD50 (Rabbit): 21	13 - 426 mg/kg
Cau	ses severe burns.			
Com	<u>iponents:</u>			
Tar, Spec Meth		:	reconstructed hur OECD Test Guide	man epidermis (RhE) eline 439
Spec Meth		:	reconstructed hur OECD Test Guide	man epidermis (RhE) eline 431
Res	ult	:	Skin irritation	
Ros Spec Meth Rese	cies nod	:	Rabbit OECD Test Guide No skin irritation	eline 404
Cas Spec Res		:	Rabbit No skin irritation	
Tar, Spec Resi		:	Rabbit Mild skin irritation	1
Xyle Spea Resi	cies	:	Rabbit Skin irritation	
Res	n lofenthion (ISO): ult narks	:	Mild skin irritation Based on data fro	om similar materials
Sod Resi	ium hydroxide: ult	:	Corrosive after 3	minutes or less of exposure
Phe Spec Res	cies	:	Rabbit Corrosive after 3	minutes to 1 hour of exposure



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	m-Cresol: Species Result p-Cresol:		:	RabbitCorrosive after 3 minutes to 1 hour of exposure					
			:						
	Species Result Serious eye damage/eye irri Causes serious eye damage.			Rabbit Corrosive after 3	ninutes to 1 hour of exposure				
				on					
	Compo	onents:							
	Tar, w	ood:							
	Result		:	Irritation to eyes,	reversing within 7 days				
	Rosin:								
	Specie		:	Rabbit					
	Result Method Castor oil: Species Result		:	No eye irritation OECD Test Guide	teline 405				
			•	OLOD Test Guide					
			: Rabbit						
			:	No eye irritation					
	Tar, co	bal:							
	Specie		:	Human					
	Result		:	Irreversible effects	s on the eye				
	Xylene):							
	Specie		:	Rabbit					
	Result		:	Irritation to eyes,	eversing within 21 days				
	Sodiur	m hydroxide:							
	Result	•	:	Irreversible effects	s on the eye				
	Remar	ks	:	Based on skin co	rosivity.				
	Pheno								
	Specie		:	Rabbit	an the ave				
	Result Method			Irreversible effects					
	m-Cres								
	Specie Result		:	Rabbit Irreversible effects	s on the eve				
	Result		•						



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p-Cre	sol:		
Specie	es	: Rabbit	
Result		: Irreversible effe	ects on the eye
Respi	ratory or skin sens	tization	
	sensitization		
May c	ause an allergic skin	reaction.	
Respi	ratory sensitization		
Not cla	assified based on ava	ailable information.	
Comp	oonents:		
Tar, w	/ood:		
Test T			ode assay (LLNA)
	s of exposure	: Skin contact	
Specie Metho		: Mouse : OECD Test Gu	ideline 129
Result		: positive	
Asses	sment	: Probability or e rate in humans	vidence of low to moderate skin sensitization
Rosin	:		
Test T		: Local lymph no	de assay (LLNA)
	s of exposure	: Skin contact	
Specie	es	: Mouse	
Metho		: OECD Test Gu	ideline 429
Result	t	: negative	
Casto	or oil:		
Test T	уре	: Maximization T	est
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result Rema		: negative : Based on data	from similar materials
Rema		. Dased on data	
Tar, c	oal:		
Test T			ode assay (LLNA)
	s of exposure	: Skin contact	
Specie		: Mouse	ideline 120
Metho Result		: OECD Test Gu : positive	
Rema			from similar materials
Asses	sment		vidence of skin sensitization in humans
Xylen	e:		
Test T		: Local lymph no	ode assay (LLNA)
	s of exposure	: Skin contact	



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Speci Resul		: Mouse : negative
Route	-	 Dermal Does not cause skin sensitization. Weak sensitizer Based on data from similar materials
Test T	s of exposure	 Human repeat insult patch test (HRIPT) Skin contact negative
Phene Test T Route Specie Metho Resul	Type is of exposure es od	 Buehler Test Skin contact Guinea pig OECD Test Guideline 406 negative
p-Cre Test T Route Specie Resul	⊺ype s of exposure es	 Draize Test Skin contact Guinea pig negative
	cell mutagenicity acted of causing genet	c defects.
•	oonents:	
Tar, w Genot	vood: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Rosin Genot	i: toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative



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ersion 1	Revision Date: 09/28/2024	SDS Number: 1552594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
Casto	or oil:		
Geno	toxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: nega	Chromosome aberration test in vitro tive
		Test Type: Ir malian cells Result: nega	n vitro sister chromatid exchange assay in mam- tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
Tar, c	oal:		
Geno	toxicity in vitro	Method: OE Result: posit	acterial reverse mutation assay (AMES) CD Test Guideline 471 ive ased on data from similar materials
	cell mutagenicity - ssment	mutagenicity mutagenicity	ult(s) from in vivo non-mammalian somatic cell r tests, supported by positive results from in vitro r assays. ased on national or regional regulation.
Ethyl	benzene:		
-	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
		Test Type: C Result: nega	Chromosome aberration test in vitro
Geno	toxicity in vivo	mammalian Species: Mo Application F	Route: Inhalation CD Test Guideline 486
Xylen	le:		
-	toxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: (Chromosome aberration test in vitro





ersion .1	Revision Date: 09/28/2024	SDS Number: 1552594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
		Result: negat	ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
		Test Type: In malian cells Result: negat	vitro sister chromatid exchange assay in mam-
Geno	toxicity in vivo	Species: Mou	oute: Skin contact
Phen	ol:		
Geno	toxicity in vitro		nromosome aberration test in vitro CD Test Guideline 473 ve
Geno	toxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC Result: positiv	use oute: Intraperitoneal injection CD Test Guideline 474
	cell mutagenicity -	: Positive resul genicity tests	t(s) from in vivo mammalian somatic cell muta-
m-Cre	esol:		
Geno	toxicity in vitro		nromosome aberration test in vitro D Test Guideline 473 ve
			acterial reverse mutation assay (AMES) D Test Guideline 471 ive
Geno	toxicity in vivo	cytogenetic te Species: Mou Application R	oute: Ingestion D Test Guideline 475
p-Cre	sol:		
Geno	toxicity in vitro		nromosome aberration test in vitro D Test Guideline 473 ve
		Test Type: In	vitro mammalian cell gene mutation test
		40 / 1	-



according to the OSHA Hazard Communication Standard

ersion .1	Revision Date: 09/28/2024	SDS Number: 1552594-0001	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017			
		Method: Of Result: neg	ECD Test Guideline 476 pative			
Geno	toxicity in vivo	Species: M Application Method: Of	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 478 Result: negative			
	nogenicity ause cancer if swallo	wed.				
-	oonents:					
Tar, c	oal:					
Speci	es	: Mouse				
	ation Route	: Ingestion				
	sure time	: 2 Years				
Resul	t	: positive				
Carcir ment	nogenicity - Assess-		idence from human epidemiological studies (oral) 3ased on national or regional regulation.			
Ethyl	benzene:					
Speci		: Rat				
	cation Route	: inhalation (vapor)			
	sure time	: 104 weeks				
Resul Rema		: positive : The mecha mans.	nism or mode of action may not be relevant in hu			
Xylen	e:					
Speci	es	: Rat				
	ation Route	: Ingestion				
	sure time	: 103 weeks				
Resul	t	: negative				
Phen	ol:					
Speci	es	: Mouse				
	cation Route	: Ingestion				
	sure time	: 103 weeks				
Metho Resul		: OECD Tes : negative	t Guideline 451			
m-Cre	esol.					
Speci		· Mouso mo	les			
	es cation Route	: Mouse, ma : Ingestion	5			
	sure time	: 105 weeks				
Resul		: equivocal				
	irks		lata from similar materials			



according to the OSHA Hazard Communication Standard

Version 7.1	Revision Date: 09/28/2024		issue: 09/30/2023 issue: 04/14/2017	
Expos Result Remar	ation Route ure time	 Mouse, female Ingestion 106 - 107 weeks positive Based on data from similar ma Weight of evidence does not so cinogen 		
	es ation Route ure time	 Mouse Ingestion 106 - 107 weeks negative Based on data from similar ma 	terials	
IARC	Tar, coal	cinogenic to humans ssibly carcinogenic to humans	8007-45-2 100-41-4	
OSHA	OSHA specifi Tar, coal (Coke oven e	cally regulated carcinogen missions)	8007-45-2	
NTP	Known to be Tar, coal	numan carcinogen	8007-45-2	
Suspe <u>Comp</u> Rosin Effects	s on fertility	: Test Type: Combined repeated reproduction/developmental to: Species: Rat Application Route: Ingestion Method: OECD Test Guideline Result: negative	xicity screening test 422	
Effects	on fetal development	: Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative		
Casto Effects	r oil: s on fertility	: Test Type: Combined repeated reproduction/developmental to: Species: Rat Application Route: Ingestion		



according to the OSHA Hazard Communication Standard

Versi 7.1	ion	Revision Date: 09/28/2024		98 Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
				Result: negative	
	Ethylbe	enzene:			
	-	on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416
I	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
2	Xylene	:			
	-	on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor)
I	Effects	on fetal development	:	Species: Rat	o-fetal development : inhalation (vapor)
	Dichlo	enthion (ISO):			
		on fetal development	:	Result: Reduced f	
				Result: Reduced f teratogenic effects	: Intraperitoneal oxicity: LOAEL: 10 mg/kg body weight fetal weight., Embryotoxic effects., No
	Reprod sessme	uctive toxicity - As- ent	:	Suspected of dam	naging the unborn child.
l	Phenol	:			
I	Effects	on fertility	:	Test Type: Two-g Species: Rat Application Route Method: OECD To Result: negative	



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Dichlofenthion Formulation

ersion .1	Revision Date: 09/28/2024	-	9S Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017	
Effec	Effects on fetal development		Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative		
m-Cr	esol:				
Effec	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Ingestion	
Effec	ts on fetal development	:	Test Type: Prena Species: Rat Application Route Result: negative	tal development toxicity study (teratogenicity) e: Ingestion	
p-Cre	esol:				
Effec	ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study	
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development e: Ingestion	
STOL	Γ-single exposure				
May o	cause respiratory irritatio es damage to organs (N		ous system).		
Com	ponents:				
Targe	coal: es of exposure et Organs ssment			e significant health effects in animals at con-) mg/kg bw or less.	
Xyler	ne:				
Asse	ssment	:	May cause respir	atory irritation.	
STO	Γ-repeated exposure				
-					

Causes damage to organs (Nervous system) through prolonged or repeated exposure. May cause damage to organs (Central nervous system, Kidney, Liver, Skin, Respiratory Tract, Auditory system) through prolonged or repeated exposure.





rsion	Revision Date: 09/28/2024	SDS Number:Date of last issue: 09/301552594-00016Date of first issue: 04/14	
<u>Comp</u>	onents:		
Tar, c	oal:		
-	t Organs	: Respiratory Tract	
	sment	: Shown to produce significant health effects centrations of >0.02 to 0.2 mg/l/6h/d.	in animals at cor
Route	s of exposure	: inhalation (dust/mist/fume)	
-	t Organs	: Respiratory Tract	
Asses	sment	: Shown to produce significant health effects centrations of >0.02 to 0.2 mg/l/6h/d.	in animals at cor
Ethyll	benzene:		
Route	s of exposure	: inhalation (vapor)	
	t Organs	: Auditory system	
Asses	sment	: Shown to produce significant health effects centrations of >0.2 to 1 mg/l/6h/d.	in animals at cor
Xylen	e:		
	s of exposure	: inhalation (vapor)	
	t Organs	: Auditory system	
Asses	sment	: Shown to produce significant health effects centrations of >0.2 to 1 mg/l/6h/d.	in animals at coi
Dichle	ofenthion (ISO):		
	t Organs	: Nervous system	
Asses	sment	: Causes damage to organs through prolong	ed or repeated
Dama	1 1.0	exposure.	
Rema	IKS	: Based on human experience.	
Pheno			
	t Organs	: Central nervous system, Kidney, Liver, Skir	
Asses	sment	: May cause damage to organs through proto exposure.	onged or repeate
Repea	ated dose toxicity		
Comp	onents:		
Rosin	:		
Specie		: Rat, male	
NOAE		: 335 mg/kg	
	ation Route	: Ingestion	
	sure time	: 90 Days	
Metho	Da	: OECD Test Guideline 408	
Casto	or oil:		
Specie		: Rat	
NOAE		: > 5,000 mg/kg	
	ation Route	: Ingestion	



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rsion	Revision Date: 09/28/2024	SDS Number: 1552594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
Expos	sure time	: 13 Weeks	
Ethyll	benzene:		
Speci		: Rat	
LOAE		: 0.868 mg/l	. r)
	ation Route sure time	: inhalation (vapo : 13 Weeks	")
Speci		: Rat	
NOAE LOAE		: 75 mg/kg	
	L ation Route	: 250 mg/kg : Ingestion	
Metho		: OECD Test Gu	deline 408
Xylen	e:		
Speci		: Rat	
	L ation Route	: > 0.2 - 1 mg/l : inhalation (vapo	pr)
	sure time	: 13 Weeks	, , , , , , , , , , , , , , , , , , ,
Rema		: Based on data	rom similar materials
Speci		: Rat	
LOAE		: 150 mg/kg : Ingestion	
	ation Route sure time	: 90 Days	
Dichle	ofenthion (ISO):		
Speci		: Rat	
NOAE		: 0.75 mg/kg : Oral	
	ation Route sure time	: 90 d	
Speci	es	: Dog	
NOAE	EL	: 0.75 mg/kg	
	ation Route	: Oral : 90 d	
Phen			
Speci LOAE		: Rat : 300 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 90 Days	
Metho	d	: OECD Test Gu	deline 408
Speci NOAE		: Rat	
	ation Route	: >= 0.1 mg/l : inhalation (vapo	pr)
	sure time	: 74 Days	,
Speci		: Rabbit	
LOAE	L	: 260 mg/kg	



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Dichlofenthion Formulation

Version 7.1	Revision Date: 09/28/2024		OS Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
	cation Route sure time	:	Skin contact 18 Days	
Spec NOAI Applie	EL cation Route sure time	:	Rat 150 mg/kg Ingestion 13 Weeks OECD Test Gu	ideline 408
	ies EL EL cation Route sure time	:	Rat 50 mg/kg 175 mg/kg Ingestion 90 Days OECD Test Gu	ideline 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 sensitization by skin contact.
Eye contact	: Symptoms: constriction of pupils, central nervous system ef- fects
Ingestion	: Symptoms: Nausea, Diarrhea, Vomiting, sweating, Lachry- mation, constriction of pupils, Central nervous system depres- sion, Gastrointestinal disturbance, bronchospasm, central nervous system effects, Edema





/ersion .1	Revision Date: 09/28/2024		9S Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
ECTION	12. ECOLOGICAL INFO	חסר		
DECTION	12. ECOLOGICAL INFO	JRI	MATION	
Ecoto	oxicity			
Com	ponents:			
Tar, v	vood:			
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 28 mg/l ·8 h Fest Guideline 202
Toxic plants	ity to algae/aquatic	:	Exposure time: 7	smus subspicatus (green algae)): 17 mg/l ′2 h Гest Guideline 201
			Exposure time: 7	smus subspicatus (green algae)): 14 mg/l ′2 h Γest Guideline 201
Rosir	n:			
	ity to fish	:	Exposure time: 9 Test substance: Method: OECD 1	o (zebra fish)): > 1 - 10 mg/l l6 h Water Accommodated Fraction Fest Guideline 203 on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Test substance:	nagna (Water flea)): 911 mg/l 8 h Water Accommodated Fraction Fest Guideline 202
Toxic plants	ity to algae/aquatic	:	1,000 mg/l Exposure time: 7 Test substance:	elis subcapitata (freshwater green alga)): : 2 h Water Accommodated Fraction Fest Guideline 201
			NOELR (Raphido 1,000 mg/l Exposure time: 7 Test substance: 1	ocelis subcapitata (freshwater green alga)
Toxic	ity to microorganisms	:	Exposure time: 3	sludge): > 10,000 mg/l 5 h Fest Guideline 209
Casto	or oil:			
	ity to fish	:	Exposure time: 9 Method: ISO 734	



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Versic 7.1	n	Revision Date: 09/28/2024		9S Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017						
	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants								:	Exposure time: 48 Test substance: V Method: OECD Te	3 h Vater Accommodated Fraction
			mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials EL50 (Pseudokirchneriella subcapitata (green a mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201		2 h Vater Accommodated Fraction est Guideline 201 on data from similar materials hneriella subcapitata (green algae)): > 100 2 h Vater Accommodated Fraction						
Т	Toxicity to microorganisms		:		nas putida): 54,000 mg/l						
т											
		to fish	:	Exposure time: 96 Test substance: V Method: OECD Te	Vater Accommodated Fraction						
		to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction						
	oxicity lants	v to algae/aquatic	:	Exposure time: 72 Method: OECD Te							
				Exposure time: 72 Method: OECD Te							
E	thylbe	enzene:									
		r to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te							



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J/I
gae)): 3.6
gae)): 3.4
J/I
5 mg/l
1
0 mg/l
I
23 mg/l



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Versio 7.1	n Revision Date: 09/28/2024		98 Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017			
	Toxicity to daphnia and other aquatic invertebrates Phenol: Toxicity to fish		: EC50 (Daphnia magna (Water flea)): 0.0011 mg/l Exposure time: 48 h Method: OECD Test Guideline 202				
			LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 24.9 mg/l 5 h			
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 3.1 mg/l } h			
	oxicity to algae/aquatic ants	:	EC50 (Selenastru Exposure time: 96	m capricornutum (green algae)): 61.1 mg/l S h			
	oxicity to fish (Chronic tox- ity)	:	NOEC: 0.077 mg/ Exposure time: 60				
ad	oxicity to daphnia and other quatic invertebrates (Chron-		NOEC (Daphnia r Exposure time: 16	nagna (Water flea)): 10 mg/l S d			
	toxicity) oxicity to microorganisms	:	IC50 (Nitrosomon Exposure time: 24				
m	m-Cresol:						
	oxicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 8.6 mg/l 3 h			
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): > 99.5 mg/l 3 h			
	Toxicity to fish (Chronic tox- icity)		Exposure time: 32	es promelas (fathead minnow)): 1.35 mg/l 2 d on data from similar materials			
a	oxicity to daphnia and other quatic invertebrates (Chron-toxicity)		Exposure time: 21	nagna (Water flea)): 1 mg/l l d on data from similar materials			
D-	-Cresol:						
-	oxicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 7.4 mg/l 5 h			
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3841				
	oxicity to algae/aquatic ants	:	EC50 (Desmodes Exposure time: 48	mus subspicatus (green algae)): 7.8 mg/l 3 h			
			EC10 (Desmodes Exposure time: 48	mus subspicatus (green algae)): 2.3 mg/l 3 h			



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	sion Date: 3/2024		S Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017			
Toxicity to fis icity)	h (Chronic tox-	:	NOEC (Pimephale Exposure time: 32	es promelas (fathead minnow)): 1.35 mg/l			
Toxicity to da	phnia and other ebrates (Chron-	:		nagna (Water flea)): 1 mg/l			
ic toxicity)	croorganisms	:	: IC50 (Nitrosomonas sp.): 260 mg/l Exposure time: 24 h				
Persistence	and degradabili	ty					
<u>Components</u>	<u>s:</u>						
Tar, wood: Biodegradabi	lity	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD T	47 %			
Rosin:							
Biodegradabi	lity	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	71 %			
Castor oil:							
Biodegradabi	lity	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials			
Ethylbenzen	e:						
Biodegradabi	lity	:	Result: Readily bi Biodegradation: T Exposure time: 28	70 - 80 %			
Xylene:							
Biodegradabi	lity	:		> 70 %			
Phenol:							
Biodegradabi	lity	:	Result: Readily bi Biodegradation: (Exposure time: 10 Method: OECD T	52 %			



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Biodeg	radability			
	Biodegradability		Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	90 %
p-Cres	sol:			
Biodeg	ıradability	:	Result: Readily b Biodegradation: Exposure time: 8	100 %
Bioaco	cumulative potential			
Compo	onents:			
Tar, w	ood:			
Partitio octano	n coefficient: n- I/water	:	log Pow: 0.2 - 2.0	02
Rosin:				
Partitio octano	n coefficient: n- I/water	:		2 Fest Guideline 117
Castor	· oil:			
Partitio octano	n coefficient: n- I/water	:	log Pow: > 4 Remarks: Calcula	ation
Tar, co	bal:			
	n coefficient: n-	:	Remarks: No dat	a available
Ethylb	enzene:			
Partitio octano	n coefficient: n- I/water	:	log Pow: 3.6	
Xylene				
Partitio octano	n coefficient: n- I/water	:	log Pow: 3.16 Remarks: Calcula	ation
Dichlo	fenthion (ISO):			
	n coefficient: n-	:	log Pow: 5.14	
Pheno	l:			
Bioacc	umulation	:		factor (BCF): 17.5 Fest Guideline 305
Partitio octano	n coefficient: n- I/water	:	log Pow: 1.47	
m-Cres	sol:			
Bioacc	umulation	:	Species: Leucisc	us idus (Golden orfe)



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Dichlofenthion Formulation

Version 7.1	Revision Date: 09/28/2024	•-	DS Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017
			Bioconcentration	factor (BCF): 17 - 20
	ition coefficient: n- nol/water	:	log Pow: 1.96	
р-С	resol:			
Bioa	Bioaccumulation		Bioconcentration	us idus (Golden orfe) factor (BCF): 17 - 20 on data from similar materials
	ition coefficient: n- nol/water	:	log Pow: 1.94	
Mot	oility in soil			
No d	data available			
Oth	er adverse effects			
No d	data available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal I	methods
------------	---------

Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 2920
Proper shipping name	:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene)
Class	:	8
Subsidiary risk	:	3
Packing group	:	11
Labels	:	8 (3)
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 2920
Proper shipping name	:	Corrosive liquid, flammable, n.o.s.
		(Sodium hydroxide, Ethylbenzene)
Class	:	8
Subsidiary risk	:	3
Packing group	:	II



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Dichlofenthion Formulation

Vers 7.1	sion	Revision Date: 09/28/2024		DS Number: 52594-00016	Date of last issue: 09/30/2023 Date of first issue: 04/14/2017	
	Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		:	Corrosive, Flamn 855 851	nable Liquids	
	IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels		:	 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Sodium hydroxide, Ethylbenzene, Dichlofenthion (ISO)) 8 3 II 8 (3) 		
	EmS C Marine	pollutant	:	F-E, S-C yes		
Transport in bulk according Not applicable for product as s			-		POL 73/78 and the IBC Code	
	Domes	stic regulation				
	49 CFF	र				

45 OI IX		
UN/ID/NA number	:	UN 2920
Proper shipping name	:	Corrosive liquids, flammable, n.o.s. (Sodium hydroxide, Ethylbenzene)
Class	:	8
Subsidiary risk	:	3
Packing group	:	II
Labels	:	CORROSIVE, FLAMMABLE LIQUID
ERG Code	:	132
Marine pollutant	:	yes(Dichlofenthion (ISO))
•		

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Tar, coal	8007-45-2	1	8
Xylene	1330-20-7	100	1075
m-Cresol	108-39-4	100	9090

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Phenol	108-95-2	1000	52631

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)



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Dichlofenthion Formulation

Phenol

m-Cresol

rsion	Revision Date: 09/28/2024	SDS Number: 1552594-00016		ue: 09/30/2023 ue: 04/14/2017
Pheno	ol	108-95-2		10000
SARA	A 311/312 Hazards	Acute toxicit Respiratory Germ cell m Carcinogeni Reproductiv Specific targ Aspiration ha Skin corrosid	city e toxicity jet organ toxicity (sing	ure) Jle or repeated exposure)
SARA	A 313		g components are sul by SARA Title III, Sec	bject to reporting levels tion 313:
		Ethylbenzen	ie 100-41-4	>= 5 - < 10 %
		Xylene	1330-20-7	>= 5 - < 10 %
		Phenol	108-95-2	>= 1 - < 5 %
		m-Cresol	108-39-4	>= 1 - < 5 %
		p-Cresol	106-44-5	>= 1 - < 5 %
US St	ate Regulations			
Penns	sylvania Right To Knov	v		
	Tar, wood Rosin Castor oil Water Tar, coal Ethylbenzene Xylene Dichlofenthion (ISO Sodium hydroxide Phenol m-Cresol p-Cresol)		91722-33-7 8050-09-7 8001-79-4 7732-18-5 8007-45-2 100-41-4 1330-20-7 97-17-6 1310-73-2 108-95-2 108-39-4 106-44-5
	o <mark>rnia Prop. 65</mark> NING: This product can e	expose you to ch	emicals including Tar	, coal, which is/are known t
				ww.P65Warnings.ca.gov.
Califo	ornia List of Hazardous	Substances		
	Rosin Tar, coal Ethylbenzene Xylene Sodium hydroxido			8050-09-7 8007-45-2 100-41-4 1330-20-7 1310-73-2
	Sodium hydroxide			1310-73-2

108-95-2

108-39-4



according to the OSHA Hazard Communication Standard

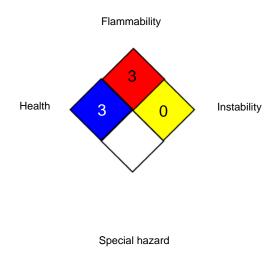
Dichlofenthion Formulation

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	p-Cresol				106-44-5		
California Permissible Exposure Limits for Chemical Contaminants							
	Rosin Tar, coal Ethylbenzene Xylene Sodium hydroxide Phenol m-Cresol p-Cresol	9			8050-09-7 8007-45-2 100-41-4 1330-20-7 1310-73-2 108-95-2 108-39-4 106-44-5		
Califo	ornia Regulated Carc	inogen	S				
	Tar, coal				8007-45-2		
The ir AICS	ngredients of this pro		re reported in not determined	the following invente	ories:		
DSL		: r	ot determined				
IECS	C	: r	ot determined				

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-



according to the OSHA Hazard Communication Standard

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		ita far Air Canta	minente				
٨٥٩	IH / TWA	its for Air Contaminants					
		8-hour, time-weighted averageCeiling limit					
	IH / C						
NIOS	SH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek					
NIOS	SH REL / ST		: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday				
NIOSH REL / C		: Ceiling value not be exceeded at any time.					
	A CARC / PEL	: Permissible exp	•				
	A Z-1 / TWA	: 8-hour time wei					

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to : Internal technica	I data, data from raw material SDSs, OECD
compile the Material SafetyeChem Portal seData Sheetcy, http://echa.ed	earch results and European Chemicals Agen- uropa.eu/

Revision Date

: 09/28/2024

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



according to the OSHA Hazard Communication Standard

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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.

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