

## **Dichlofenthion Formulation**

Version 8.0	Revision Date: 28.09.2024		S Number: 52610-00016	Date of last issue: 30.09.2023 Date of first issue: 14.04.2017
SECTION	1. IDENTIFICATION			
Produ	uct identifier	:	Dichlofenthion	Formulation
<b>Manı</b> Comp	<b>ifacturer or supplier'</b> bany	s detai	i <b>ls</b> MSD	
Addre	ess	:		ento Soares, 530 Paulo - Brazil CEP 12730-340
Telep	hone	:	908-740-4000	
Emer	gency telephone	:	1-908-423-600	0
E-ma	il address	:	EHSDATASTE	WARD@msd.com
	mmended use of the			
	mmended use ictions on use	:	Veterinary proc Not applicable	duct

#### SECTION 2. HAZARDS IDENTIFICATION

	GHS Classification in accord Flammable liquids	and :	ce with ABNT NBR 14725 Standard Category 3
	Acute toxicity (Oral)	:	Category 4
	Acute toxicity (Dermal)	:	Category 5
I	Skin corrosion	:	Sub-category 1B
I	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 2 (Nervous system, Respiratory Tract)



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Aspira	ation hazard	: Category 1	
Short- hazaro	term (acute) aquatic d	: Category 1	
Long- hazar	term (chronic) aquatic d	: Category 1	
		ordance with AB	NT NBR 14725 Standard
Hazar	d pictograms		
Signal	l Word	: Danger	• • •
Hazar	d Statements	H302 Harn H304 May H313 May H314 Caus H317 May H335 May H341 Susp H350 May H361d Sus H370 Caus H373 May tory Tract)	mable liquid and vapor. nful if swallowed. be fatal if swallowed and enters airways. be harmful in contact with skin. ses severe skin burns and eye damage. cause an allergic skin reaction. cause respiratory irritation. bected of causing genetic defects. cause cancer if swallowed. spected of damaging the unborn child. ses damage to organs (Nervous system). cause damage to organs (Nervous system, Res through prolonged or repeated exposure. toxic to aquatic life with long lasting effects.
Preca	utionary Statements	P210 Keep and other i P233 Keep P270 Do n P271 Use P272 Cont the workpla P273 Avoid P280 Wea tion/ face p <b>Response</b> P301 + P3 Do NOT in	in special instructions before use. a way from heat, hot surfaces, sparks, open flat gnition sources. No smoking. container tightly closed. ot eat, drink or smoke when using this product. only outdoors or in a well-ventilated area. aminated work clothing should not be allowed o ace. d release to the environment. r protective gloves/ protective clothing/ eye protective rotection. 30 + P331 + P310 IF SWALLOWED: Rinse mound duce vomiting. Immediately call a POISON
		you feel ur P303 + P3 immediatel	12 IF ON SKIN: Call a POISON CENTER/ docto



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		and keep com POISON CEN P305 + P351 + water for seve and easy to do CENTER/ doc P308 + P311 I CENTER/ doc	<ul> <li>P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor.</li> <li>F exposed or concerned: Call a POISON tor.</li> <li>f skin irritation or rash occurs: Get medical ad-</li> </ul>		
	<b>Storage:</b> P405 Store locked up.				

### Other hazards which do not result in classification

Vapors may form explosive mixture with air.

Substance / Mixture

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture

Components							
Chemical name	CAS-No.	Classification	Concentration (% w/w)				
Tar, wood	91722-33-7	Flam. Liq., 4 Skin Irrit., 2 Eye Irrit., 2B Skin Sens., 1B Aquatic Acute, 3 Aquatic Chronic, 3	>= 10 -< 20				
Rosin	8050-09-7	Acute Tox. (Oral), 5 Aquatic Acute, 2	>= 10 -< 20				
Tar, coal	8007-45-2	Acute Tox. (Oral), 4 Skin Irrit., 3 Eye Dam., 1 Skin Sens., 1 Muta., 2 Carc. (Oral), 1A STOT SE, (Nervous system), 1 STOT SE, 3 STOT RE, (Respirato- ry Tract), 2 Aquatic Acute, 2 Aquatic Chronic, 2	>= 10 -< 20				
Ethylbenzene	100-41-4	Flam. Liq., 2 Acute Tox. (Oral), 5 Acute Tox. (Inhala- tion), 4 STOT RE, (Auditory system), 2	>= 5 -< 10				



rsion )	Revision Date: 28.09.2024	SDS Number: 1552610-00016	Date of last issue: 3 Date of first issue: 1	
			Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 3	
Xylen	e	1330-20-7	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhala- tion), 5 Acute Tox. (Dermal), 5 Skin Irrit., 2 Eye Irrit., 2A STOT SE, 3 STOT RE, (Auditory system), 2 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 3	>= 5 -< 10
Dichlo	ofenthion (ISO)	97-17-6	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 4 Acute Tox. (Dermal), 3 Repr., 2 STOT RE, (Nervous system), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 3 -< 5
Sodiu	m hydroxide	1310-73-2	Met. Corr., 1 Skin Corr., 1A Eye Dam., 1	>= 2 -< 3
Pheno	ol	108-95-2	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 3 Acute Tox. (Dermal), 3 Skin Corr., 1B Eye Dam., 1 Muta., 2 STOT RE, (Central nervous system, Kid- ney, Liver, Skin), 2 Aquatic Acute, 2 Aquatic Chronic, 2	>= 1 -< 2,5
m-Cre	esol	108-39-4	Flam. Liq., 4 Acute Tox. (Oral), 3 Acute Tox. (Dermal), 3 Skin Corr., 1B Eye Dam., 1 Aquatic Acute, 2 Aquatic Chronic, 3	>= 1 -< 2,5
p-Cre	sol	106-44-5	Acute Tox. (Oral), 3 Acute Tox. (Dermal), 3	>= 1 -< 2,5



/ersion 3.0	Revision Date: 28.09.2024	SDS Number: 1552610-00016	Date of last issue: 30.09.2023 Date of first issue: 14.04.2017
			Skin Corr., 1B Eye Dam., 1 Aquatic Acute, 2 Aquatic Chronic, 3
SECTION	4. FIRST AID MEASU	RES	
Gene	ral advice	advice immed	accident or if you feel unwell, seek medical liately. ms persist or in all cases of doubt seek medical
lf inha	aled	: If inhaled, ren If not breathin If breathing is	nove to fresh air. g, give artificial respiration. difficult, give oxygen. Ittention immediately.
In cas	se of skin contact	: In case of cor for at least 15 and shoes. Get medical a Wash clothing	Attention immediately. htact, immediately flush skin with plenty of water minutes while removing contaminated clothing httention immediately. g before reuse. ean shoes before reuse.
In cas	se of eye contact	: In case of cor for at least 15 If easy to do,	ntact, immediately flush eyes with plenty of water minutes. remove contact lens, if worn.
lf swa	allowed	: If swallowed, If vomiting oc Call a physicia Rinse mouth	Ittention immediately. DO NOT induce vomiting. curs have person lean forward. an or poison control center immediately. thoroughly with water.
	important symptoms ffects, both acute and ed	: Harmful if swa May be fatal i May be harmf May cause ar Causes serior May cause re Suspected of May cause ca Suspected of Causes dama May cause da exposure. Causes sever	f swallowed and enters airways. iul in contact with skin. a allergic skin reaction. us eye damage. spiratory irritation. causing genetic defects. ancer if swallowed. damaging the unborn child. ige to organs. amage to organs through prolonged or repeated re burns.
Prote	ction of first-aiders	: First Aid responses	tive tract burns. onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).
Notes	s to physician		matically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray

Alcohol-resistant foam



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				Carbon dioxide (C Dry chemical	:02)
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific fighting	c hazards during fire	:	fire. Flash back possib Vapors may form	water stream as it may scatter and spread ble over considerable distance. explosive mixtures with air. bustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides (N	NOx)
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material 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 items



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		determine whi Sections 13 a	ne cleanup of releases. You will need to ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	7. HANDLING AND ST	TORAGE	
Tech	nical measures		ing measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ve ventilation.	ntilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on Do not breath Do not swallow Do not get in e Wash skin tho Handle in accor practice, base assessment Non-sparking Keep containe Already sensit to asthma, alle should consul respiratory irri Keep away fro other ignition s Take precaution Do not eat, dr	N
Hygie	ene measures	flushing system place. When using d Contaminated workplace. Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. work clothing should not be allowed out of the inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
Cond	itions for safe storage	: Keep in prope Store locked u Keep tightly cl Keep in a coo Store in accor	rly labeled containers. ıp.
Mater	rials to avoid	: Do not store v Strong oxidizi	vith the following product types:



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		Substances and flammable gases Explosives Gases	s ls s stances and mixtures mixtures which in contact with water emit

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis				
Rosin	8050-09-7	exposure) TWA (Inhalable particulate	concentration 0,001 mg/m <sup>3</sup> (total Resin acids)	ACGIH				
Ethylbenzene	100-41-4	LT	78 ppm 340 mg/m <sup>3</sup>	BR OEL				
	Further inform	nation: Degree of	harmfulness: mediur	n				
		TWA	20 ppm	ACGIH				
Xylene	1330-20-7	LT	78 ppm 340 mg/m <sup>3</sup>	BR OEL				
	Further inform	Further information: Degree of harmfulness: medium						
		TWA	20 ppm	ACGIH				
Dichlofenthion (ISO)	97-17-6	TWA	20 µg/m3 (OEB 3)	Internal				
	Further inform	Further information: Skin						
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal				
Sodium hydroxide	1310-73-2	С	2 mg/m <sup>3</sup>	ACGIH				
Phenol	108-95-2	LT	4 ppm 15 mg/m³	BR OEL				
		Further information: Absorption through the skin, Degree of harm- fulness: maximum						
		TWA	5 ppm	ACGIH				
m-Cresol	108-39-4	TWA (Inhalable fraction and vapor)	20 mg/m³	ACGIH				
p-Cresol	106-44-5	TWA (Inhalable fraction and vapor)	20 mg/m³	ACGIH				

### **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	



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Pheno	bl	108-95-2	phenol	Urine	End of workday	250 mg/g creatinine	BR BE
			Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g creatinine	ACGII BEI
Xylene	Э	1330-20-7	methyl hippuric acid	Urine	End of workday	1.5 mg/g creatinine	BR BE
			Methylhippu ric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g creatinine	ACGII BEI
Ethylb	enzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of workday	0.15 g/g creatinine	BR BE
			Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	150 mg/g creatinine	ACGII BEI
Engin	eering measures	tec les All des pro	e appropriate e hnologies to co s quick connec engineering co sign and opera otect products,	ontrol airborn ctions). ontrols shoul ted in accor	ne concentr d be impler dance with	ations (e.g., o nented by fac GMP principle nment.	drip- sility
		are the cor Mir	ntainment tech e required to co compound to ntainment device nimize open ha	nologies su introl at sour uncontrollec ces). indling.	itable for co ce and to p l areas (e.g	revent migrat ., open-face	
		are the cor Mir Us equ	ntainment tech required to co compound to ntainment device	nologies su introl at sour uncontrollec ces). indling.	itable for co ce and to p l areas (e.g	revent migrat ., open-face	
Respir Filt	onal protective equination ratory protection ter type protection	are the cor Mir Us equ uipment : If a exp rec	ntainment tech required to co compound to ntainment devic nimize open ha e explosion-pro	nologies sui introl at sour uncontrollec ces). indling. pof electrica exhaust ven nent demon idelines, use	itable for co rce and to p I areas (e.g I, ventilating tilation is no strates exp e respiratory	revent migrat , open-face and lighting ot available or osures outsid / protection.	ion of



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Re	marks	flammable, whic	gloving. Take note that the product is h may impact the selection of hand			
Eye pı	rotection	If the work enviro mists or aerosols Wear a faceshie	eses with side shields or goggles. Conment or activity involves dusty conditions, a, wear the appropriate goggles. Id or other full face protection if there is a ct contact to the face with dusts, mists, or			
Skin and body protection		Additional body of task being perford disposable suits Use appropriate	<ul> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>			

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	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	:	30 °C
Evaporation rate	:	No data available
Evaporation rate Flammability (solid, gas)	:	No data available Not applicable
Flammability (solid, gas)	:	Not applicable Not applicable
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper	:	Not applicable Not applicable No data available
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	Not applicable Not applicable No data available
Flammability (solid, gas) Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	: :	Not applicable Not applicable No data available No data available



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[	Density	,	:	1.009 - 1.051 g/c	m³ (20 °C)			
Ş	Solubili Wat	ty(ies) er solubility	:	No data available	9			
		n coefficient: n-	:	Not applicable				
	octanol/water Autoignition temperature		:	: No data available				
[	Decomposition temperature		:	No data available				
١	Viscosity Viscosity, kinematic		:	No data available	9			
E	Explosi	ve properties	:	Not explosive				
(	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.			
	Particle Particle	characteristics 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 exposure	of :	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed. May be harmful in contact w	vith sk	in.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1.450 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method



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Acute	dermal toxicity	: Acute toxicit Method: Cal	y estimate: 3.724 mg/kg culation method
<u>Comp</u>	onents:		
Tar, w	vood:		
Acute	oral toxicity		> 2.000 mg/kg CD Test Guideline 423 :: The substance or mixture has no acute oral tox
Rosin	:		
Acute	oral toxicity	: LD50 (Rat):	2.800 mg/kg
Acute	dermal toxicity		> 2.000 mg/kg CD Test Guideline 402 : The substance or mixture has no acute dermal
Tar, co	oal:		
	oral toxicity	: LD50 (Rat):	1.700 mg/kg
Acute	dermal toxicity	: LD50 (Rabb	it): > 5.000 mg/kg
	penzene:		
Acute	oral toxicity	: LD50 (Rat):	3.500 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tin Test atmosp	ne: 4 h
Acute	dermal toxicity	: LD50 (Rabb	it): > 5.000 mg/kg
Xylen	e:		
	oral toxicity	: LD50 (Rat): Method: Dire	3.523 mg/kg ective 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	: LC50 (Rat): Exposure tin Test atmosp	ne: 4 h
Acute	dermal toxicity	: LD50 (Rabb	it): > 4.200 mg/kg
Dichlo	ofenthion (ISO):		
	oral toxicity	: LD50 (Rat):	172 mg/kg
		LD50 (Rat):	270 mg/kg
Acute	inhalation toxicity	: LC50 (Rat):	1,75 mg/l
Aquita	dermal toxicity	: LD50 (Rat):	355 ma/ka



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			LD50 (Rabbit):	6.000 mg/kg
II				
	um hydroxide: inhalation toxicity	:	Assessment: C	orrosive to the respiratory tract.
Phen	ol:			
Acute	oral toxicity	:	LD50 (Rat): 650 Method: OECD	) mg/kg Test Guideline 401
			Acute toxicity e Method: Expert	stimate (Humans): 140 - 290 mg/kg judgment
Acute	inhalation toxicity	:	LC0 (Rat): 0,9 r Exposure time: Test atmospher Assessment: C	8 h
			Acute toxicity ex Exposure time: Test atmospher Method: Expert	e: dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit): Method: OECD	660 mg/kg Test Guideline 402
			Acute toxicity ex Method: Expert	stimate (Humans): 300 mg/kg judgment
II m-Cr	esol:			
	e oral toxicity	:	LD50 (Rat): 12 <sup>2</sup> Remarks: Base	l mg/kg d on data from similar materials
Acute	inhalation toxicity	:	Assessment: C	orrosive to the respiratory tract.
Acute	dermal toxicity	:	LD50 (Rabbit): Remarks: Base	301 mg/kg d on data from similar materials
p-Cre	esol:			
Acute	oral toxicity	:	LD50 (Rat): 172	2 - 250 mg/kg
Acute	inhalation toxicity	:	Assessment: C	orrosive to the respiratory tract.
Acute	e dermal toxicity	:	LD50 (Rabbit):	213 - 426 mg/kg
Cause	corrosion/irritation es severe burns. conents:			
	vood:			
Speci		:	reconstructed h	uman epidermis (RhE)



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Μ	lethod	: OECD Test G	uideline 439
S M	pecies lethod	: reconstructed : OECD Test G	human epidermis (RhE) uideline 431
R	esult	: Skin irritation	
	osin:		
Μ	pecies lethod esult	: Rabbit : OECD Test G : No skin irritatio	
	ar, coal:		
S R	pecies esult	: Rabbit : Mild skin irritat	ion
	ylene:		
S R	pecies esult	: Rabbit : Skin irritation	
	ichlofenthion (ISO):		
	esult emarks	: Mild skin irritat : Based on data	ion I from similar materials
	odium hydroxide:		
IR	esult	: Corrosive afte	r 3 minutes or less of exposure
	henol:	Debbit	
	pecies esult	: Rabbit : Corrosive afte	r 3 minutes to 1 hour of exposure
m	-Cresol:		
	pecies esult	: Rabbit : Corrosive afte	r 3 minutes to 1 hour of exposure
	-Cresol:		
	pecies esult	: Rabbit : Corrosive afte	r 3 minutes to 1 hour of exposure
	<b>erious eye damage/e</b> auses serious eye dan	•	
<u>c</u>	omponents:		
	ar, wood:		
∎R	esult	: Irritation to eye	es, reversing within 7 days



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Rosi	n:			
Spec	ies	:	Rabbit	
Resu		:	No eye irritation	
Meth	od	:	OECD Test Guide	eline 405
Tar, o	coal:			
Spec	ies	:	Human	
Resu	lt	:	Irreversible effect	s on the eye
Xyler	ne:			
Spec	ies	:	Rabbit	
Resu	lt	:	Irritation to eyes,	reversing within 21 days
Sodi	um hydroxide:			
Resu		:	Irreversible effect	s on the eye
Rema		:	Based on skin co	
Phen	ol:			
Spec		:	Rabbit	
Resu		:	Irreversible effect	s on the eye
Meth	od	:	OECD Test Guide	eline 405
m-Cr	esol:			
Spec	ies	:	Rabbit	
Resu		:	Irreversible effect	s on the eye
p-Cre	esol:			
Spec			Rabbit	
Resu	lt	:	Irreversible effect	s on the eye
<b>D</b>				
	iratory or skin sensiti	zatio	on	
-	sensitization cause an allergic skin re	eacti	n	
-	_	Cucin		
-	viratory sensitization lassified based on avai	lable	information.	
Com	ponents:			
Tar, v	wood:			
Test		:	Local lymph node	assay (LLNA)
Route	es of exposure	:	Skin contact	,
Spec		:	Mouse	- 1' 400
Meth		÷	OECD Test Guide	eline 429
Resu		:	positive	
Asse	ssment	:		dence of low to moderate skin sensitization
11			rate in humans	



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Rosin	:		
Test T Route Specie Metho Result	s of exposure es id	<ul> <li>Local lymph nod</li> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guid</li> <li>negative</li> </ul>	
Tar, c	oal:		
Test T Route Specie Metho Result Rema	s of exposure es id	<ul> <li>Local lymph nod</li> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guid</li> <li>positive</li> <li>Based on data fr</li> </ul>	
Asses	sment	: Probability or ev	idence of skin sensitization in humans
Xylen	e:		
Test T	ype s of exposure es	<ul> <li>Local lymph nod</li> <li>Skin contact</li> <li>Mouse</li> <li>negative</li> </ul>	le assay (LLNA)
Dichle	ofenthion (ISO):		
		<ul> <li>Dermal</li> <li>Does not cause</li> <li>Weak sensitizer</li> <li>Based on data fr</li> </ul>	skin sensitization. rom similar materials
Sodiu	m hydroxide:		
Test T Route Result	s of exposure	: Human repeat in : Skin contact : negative	sult patch test (HRIPT)
Pheno	ol:		
Test T Route Specie Metho Result	s of exposure es id	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guid</li> <li>negative</li> </ul>	deline 406
p-Cre	sol:		
Test T Route Specie Result	s of exposure es	<ul> <li>Draize Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> </ul>	
0			

### Germ cell mutagenicity

Suspected of causing genetic defects.



ersion .0	Revision Date: 28.09.2024	SDS Number:Date of last issue: 30.09.20231552610-00016Date of first issue: 14.04.2017
<u>Comp</u>	oonents:	
Tar, w	vood:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Rosin	1:	
Genot	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
Tar, c	oal:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive Remarks: Based on data from similar materials
	cell mutagenicity - ssment	<ul> <li>Positive result(s) from in vivo non-mammalian somatic cell mutagenicity tests, supported by positive results from in vitro mutagenicity assays.</li> <li>Remarks: Based on national or regional regulation.</li> </ul>
Ethvl	benzene:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) 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 Result: negative
Genot	toxicity in vivo	<ul> <li>Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Mouse Application Route: Inhalation Method: OECD Test Guideline 486 Result: negative</li> </ul>
II Vulon		
Xylen Genot	e: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative



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		Test Type: C Result: negat	hromosome aberration test in vitro tive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test tive
		Test Type: In malian cells Result: negat	vitro sister chromatid exchange assay in mam-
Gen	otoxicity in vivo	Species: Mou	coute: Skin contact
Phe	nol:		
Gen	otoxicity in vitro		hromosome aberration test in vitro CD Test Guideline 473 ve
Gen	otoxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC Result: positi	use coute: Intraperitoneal injection CD Test Guideline 474
	n cell mutagenicity - essment	: Positive resu mutagenicity	lt(s) from in vivo mammalian somatic cell tests.
m-C	resol:		
Gen	otoxicity in vitro		hromosome aberration test in vitro CD Test Guideline 473 ve
			acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
Gen	otoxicity in vivo	cytogenetic to Species: Mou Application R	Coute: Ingestion CD Test Guideline 475
p-Cr	esol:		
Gen	otoxicity in vitro		hromosome aberration test in vitro CD Test Guideline 473 ve



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				tro mammalian cell gene mutation test Test Guideline 476 e			
Geno	Genotoxicity in vivo		: Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 478 Result: negative				
Carci	nogenicity						
	ause cancer if swallov	ved.					
	oonents:						
Tar, c							
Speci			Mouse				
	cation Route	÷	Ingestion				
	sure time	:	2 Years				
Resu		:	positive				
Carcii ment	nogenicity - Assess-	:		ce from human epidemiological studies (oral) d on national or regional regulation.			
Ethyl	benzene:						
Speci	es	:	Rat				
Applio	cation Route	:	inhalation (vapo	or)			
	sure time	:	104 weeks				
Resu		:	positive				
Rema	irks	:	The mechanism mans.	n or mode of action may not be relevant in hu-			
Xylen	ie:						
Speci		:	Rat				
	cation Route	:	Ingestion				
Expos	sure time	:	103 weeks				
Resu	t	:	negative				
Phen	ol:						
Speci		:	Mouse				
Applio	cation Route	:	Ingestion				
Expos	sure time	:	103 weeks				
Metho		:	OECD Test Gu	ideline 451			
Resu	t	:	negative				
m-Cro	esol:						
Speci	es	:	Mouse, males				
Applio	cation Route	:	Ingestion				
	sure time	:	105 weeks				
Resu		:	equivocal	from aimilar matariala			
Rema	ITKS	:	based on data	from similar materials			



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Expos Resul Rema Carcir	cation Route sure time t	:	Weight of evidence	m similar materials e does not support classification as a car-
ment			cinogen	
	es cation Route sure time t	:	Mouse Ingestion 106 - 107 weeks negative Based on data fro	m similar materials
•	oductive toxicity ected of damaging the u	nbo	rn child.	
Comp	oonents:			
Rosin	):			
Effect	s on fertility	:		
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
Ethyll	benzene:			
-	s on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
Xylen	e:			
	s on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor)



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П			Result: negative	
Effec	Effects on fetal development		Species: Rat	vo-fetal development e: inhalation (vapor)
Dich	lofenthion (ISO):			
Effec	ts on fetal development	:	Result: Reduced	
			Result: Reduced togenic effects.	
Repro	oductive toxicity - As- ment	:	Suspected of dan	naging the unborn child.
Phen	nol:			
Effec	ts on fertility	:	Species: Rat Application Route	eneration reproduction toxicity study : Ingestion est Guideline 416
Effec	ts on fetal development	:	Species: Mouse Application Route	vo-fetal development e: Ingestion est Guideline 414
m-Cr	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: Prena Species: Rat Application Route Result: negative	tal development toxicity study (teratogenicity) :: Ingestion
p-Cre	esol:			
	ts on fertility	:	Test Type: Two-g Species: Rat	eneration reproduction toxicity study



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				Application Route Result: negative	: Ingestion
Ef	ffects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
S	тот-	single exposure			
М	lay ca	ause respiratory irritatio s damage to organs (N		ous system).	
<u>C</u> (	ompo	onents:			
Та	ar, co	bal:			
		of exposure	:	Ingestion	
		Organs sment	÷	Nervous system Shown to produce	e significant health effects in animals at con-
					mg/kg bw or less.
V	ylene	<b>.</b> .			
-	-	sment	:	May cause respira	atory irritation.
				.,	,, ,
		repeated exposure			
	-	ause damage to organs ed exposure.	(Ne	ervous system, Res	spiratory Tract) through prolonged or
<u>C</u>	ompo	onents:			
Та	ar, co	bal:			
	-	Organs sment	:		e significant health effects in animals at con- 02 to 0.2 mg/l/6h/d.
R	outes	of exposure	÷	inhalation (dust/m	ist/fume)
Та	arget	of exposure Organs	:	<b>Respiratory Tract</b>	
As	ssess	sment	÷		e significant health effects in animals at con- 02 to 0.2 mg/l/6h/d.
					C C
	-	enzene:			
R	outes	of exposure Organs	:	inhalation (vapor) Auditory system	
		sment	:	Shown to produce	significant health effects in animals at con-
11				centrations of >0.2	2 to 1 mg/l/6h/d.
X	ylene	<b>.</b>			
	-	s of exposure	:	inhalation (vapor)	
Та	arget	Organs	:	Auditory system	
As	ssess	sment	:	Shown to produce centrations of >0.2	e significant health effects in animals at con- 2 to 1 mg/l/6h/d.



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Dichl	ofenthion (ISO):						
Targe	et Organs ssment	: Causes damage exposure.	<ul> <li>Nervous system</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Based on human experience.</li> </ul>				
Dhan	e la						
	or: et Organs esment		is system, Kidney, Liver, Skin mage to organs through prolonged or repeated				
Repe	ated dose toxicity						
Comp	oonents:						
Rosir	ו:						
	EL cation Route sure time	: Rat, male : 335 mg/kg : Ingestion : 90 Days : OECD Test Gu	uideline 408				
Ethyl	benzene:						
Speci LOAE Applic Expos		: Rat : 0,868 mg/l : inhalation (vap : 13 Weeks	or)				
Speci NOAE LOAE Applic Metho	EL EL cation Route	: Rat : 75 mg/kg : 250 mg/kg : Ingestion : OECD Test Gu	uideline 408				
Xylen	ie:						
Speci LOAE Applic	es EL cation Route sure time	: Rat : > 0,2 - 1 mg/l : inhalation (vap : 13 Weeks : Based on data	or) from similar materials				
		: Rat : 150 mg/kg : Ingestion : 90 Days					
Dichl	ofenthion (ISO):						
Speci NOAE Applic	es	: Rat : 0,75 mg/kg : Oral : 90 d					



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	ies EL cation Route sure time	: Dog : 0,75 mg/kg : Oral : 90 d	
Phen	ol.		
Spec LOAE Appli	ies EL cation Route sure time	: Rat : 300 mg/kg : Ingestion : 90 Days : OECD Test G	uideline 408
		: Rat : >= 0,1 mg/l : inhalation (va : 74 Days	por)
		: Rabbit : 260 mg/kg : Skin contact : 18 Days	
m-Cr	esol:		
	EL cation Route sure time	: Rat : 150 mg/kg : Ingestion : 13 Weeks : OECD Test G	uideline 408
p-Cre	esol:		
Spec NOAI LOAE Appli	ies EL EL cation Route sure time	: Rat : 50 mg/kg : 175 mg/kg : Ingestion : 90 Days : OECD Test G	uideline 408
Appli Expo Meth	cation Route sure time	: Ingestion : 90 Days	uideline 408

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.



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The s	Xylene: The substance or mixture is known to cause human aspiration toxicity hazards or has to be re- garded as if it causes a human aspiration toxicity hazard.									
Exper	rience with human ex	cposu	re							
Comp	oonents:									
Dichle	ofenthion (ISO):									
Skin o	contact	:	Remarks: Can be	ng, central nervous system effects, sweating absorbed through skin. ization by skin contact.						
Eye c	ontact	:		riction of pupils, central nervous system ef-						
Ingest	tion	:	mation, constriction	ea, Diarrhea, Vomiting, sweating, Lachry- on of pupils, Central nervous system depres- tinal disturbance, bronchospasm, central offects, Edema						

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

### Ecotoxicity

#### Components:

### Tar, wood:

Tar, wood:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 28 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Desmodesmus subspicatus (green algae)): 14 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Rosin:		
Toxicity to fish	:	LL50 (Danio rerio (zebra fish)): > 1 - 10 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 911 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Raphidocelis subcapitata (freshwater green alga)): > 1.000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction



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II			Method: OECD T	est Guideline 201
			1.000 mg/l Exposure time: 72	Vater Accommodated Fraction
Τοχία	city to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD T	
∎ Tar,	coal:			
Τοχία	city to fish	:	Exposure time: 96 Test substance: V Method: OECD T	Vater Accommodated Fraction
	city to daphnia and other atic invertebrates	:	Exposure time: 48 Test substance: V Method: OECD T	Vater Accommodated Fraction
Toxic plant	city to algae/aquatic ts	:	Exposure time: 72 Method: OECD T	
			Exposure time: 72 Method: OECD T	
	lbenzene:			
Toxic	city to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 1,8 - 2,4 mg/l 3 h
Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 96	chneriella subcapitata (green algae)): 3,6 5 h
			NOEC (Pseudokin mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 3,4 5 h
	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Ceriodapł Exposure time: 7	nnia dubia (water flea)): 0,96 mg/l d



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Toxici	ty to microorganisms	:	EC50 (Nitrosomor Exposure time: 24	
Xylen	e:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13,5 mg/l 5 h
	ty to daphnia and other ic invertebrates	:	Exposure time: 24 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l 2 h
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 35 Method: OECD Te	
	c invertebrates (Chron-	:	Exposure time: 21 Method: OECD Te	
Toxici	ty to microorganisms	:	NOEC: > 100 mg/ Exposure time: 3 Method: OECD Te Remarks: Based of	h
II Dichl	ofenthion (ISO):			
	ty to fish	:	LC50 (No species Exposure time: 96 Method: OECD Te	
			LC50 (Lepomis m Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	ctor (Acute aquatic tox-	:	100	
icity) M-Fac toxicity	ctor (Chronic aquatic y)	:	100	
Pheno	ol:			
Toxici	ty to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 24,9 mg/l S h
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 3,1 mg/l 3 h



ersion )	Revision Date: 28.09.2024	-	S Number: 52610-00016	Date of last issue: 30.09.2023 Date of first issue: 14.04.2017	
Toxicity plants	y to algae/aquatic	:	EC50 (Selenastru Exposure time: 9	ım capricornutum (green algae)): 61,1 mg/ 5 h	
Toxicity to fish (Chronic tox- icity)		:	NOEC: 0,077 mg/l Exposure time: 60 d		
aquatio	invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 1	magna (Water flea)): 10 mg/l 6 d	
ic toxic Toxicit <u>y</u>	ity) y to microorganisms	:	IC50 (Nitrosomor Exposure time: 2		
m-Cres	sol:				
Toxicity	y to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 8,6 mg/l ວິ h	
	y to daphnia and other invertebrates	:	EC50 (Daphnia p Exposure time: 4	ulex (Water flea)): > 99,5 mg/l 3 h	
Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	Exposure time: 3	es promelas (fathead minnow)): 1,35 mg/l 2 d on data from similar materials	
	y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 2	magna (Water flea)): 1 mg/l 1 d on data from similar materials	
p-Cres	sol:				
Toxicity	y to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 7,4 mg/l 5 h	
	y to daphnia and other invertebrates	:	EC50 (Daphnia n Exposure time: 4 Method: DIN 384		
Toxicity plants	y to algae/aquatic	:	EC50 (Desmodes Exposure time: 4	smus subspicatus (green algae)): 7,8 mg/l 3 h	
			EC10 (Desmodes Exposure time: 4	smus subspicatus (green algae)): 2,3 mg/l 3 h	
Toxicity icity)	y to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 3	es promelas (fathead minnow)): 1,35 mg/l 2 d	
aquatio	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 1 mg/l 1 d	
ic toxic Toxicity	ity) y to microorganisms	:	IC50 (Nitrosomor Exposure time: 2		



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Persi	Persistence and degradability						
<u>Com</u>	ponents:						
Tar, v	wood:						
Biode	egradability	:	Biodegradation: Exposure time:				
Rosir	n:						
Biode	egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	71 %			
Ethyl	benzene:						
Biode	egradability	:	Result: Readily Biodegradation: Exposure time:	70 - 80 %			
Xyler	ne:						
	egradability	:		> 70 %			
 Phen	ol:						
	egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	62 %			
m-Cr	esol:						
	egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	90 %			
p-Cre	esol:						
Biode	egradability	:	Result: Readily Biodegradation: Exposure time:	100 %			
Bioad	ccumulative potential						
Com	ponents:						
Tar, v	wood:						



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	ion coefficient: n- ol/water	: log Pow: 0,2	- 2,02
Rosir	n:		
	ion coefficient: n- ol/water	: log Pow: > 3 Method: OEC	- 6,2 CD Test Guideline 117
Tar, c	coal:		
Partit	ion coefficient: n- ol/water	: Remarks: No	data available
Ethyl	benzene:		
	ion coefficient: n- ol/water	: log Pow: 3,6	
Xyler	ne:		
	ion coefficient: n- ol/water	: log Pow: 3,16 Remarks: Ca	
Dichl	ofenthion (ISO):		
	ion coefficient: n- ol/water	: log Pow: 5,14	4
Phen	ol:		
Bioac	cumulation		n tion factor (BCF): 17,5 CD Test Guideline 305
	ion coefficient: n- ol/water	: log Pow: 1,47	7
m-Cr	esol:		
Bioac	cumulation		ciscus idus (Golden orfe) tion factor (BCF): 17 - 20
	ion coefficient: n- ol/water	: log Pow: 1,96	5
p-Cre	esol:		
Bioac	cumulation	Bioconcentra	ciscus idus (Golden orfe) tion factor (BCF): 17 - 20 sed on data from similar materials
	ion coefficient: n- ol/water	: log Pow: 1,94	1
	<b>lity in soil</b> ata available		
	<b>r adverse effects</b> ata available		



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#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>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.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

#### **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	:	ll
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	:	
Labels	:	Corrosive, Flammable Liquids
Packing instruction (cargo	:	855
aircraft)		851
Packing instruction (passen- ger aircraft)	·	001
<b>o</b> ,		
IMDG-Code		
	:	UN 2920
Proper shipping name	:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
		(Sodium hydroxide, Ethylbenzene, Dichlofenthion (ISO))
Class Subsidiary risk	÷	8 3
Packing group	:	5 
Labels	:	8 (3)
EmS Code	:	F-E, S-C
Marine pollutant	÷	ves

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**



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Class Subsi Packi Label	umber er shipping name diary risk ng group		QUID, FLAMMABLE, N.O.S. de, Ethylbenzene)

#### 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**

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

National List of Carcinogenic Agents for Humans -	(LINACH)
Group 1: Carcinogenic to humans Tar, coal Group 2B: Possibly carcinogenic to humans Ethylbenzene	8007-45-2
Ethylbenzene	100-41-4
Brazil. List of chemicals controlled by the Federal Police	: Sodium hydroxide Xylene

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

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

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

#### **Further information**

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

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

#### Full text of other abbreviations



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ACGIH ACGIH BEI BR BEI		: ACGIH - Biolog : Brazil. NR7. Pa	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>ACGIH - Biological Exposure Indices (BEI)</li> <li>Brazil. NR7. Parameters for Biological Control of Occupational</li> </ul>			
BR OEL		•	Exposure to Some Chemical Agents : Brazil. NR 15 - Unhealthy activities and operations			
ACGIH / TWA ACGIH / C BR OEL / LT		: 8-hour, time-we : Ceiling limit : Up to 48 hours	eighted average /week			

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. 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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