

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Dichlofenthion Formulation

Version  
7.0

Revision Date:  
14.04.2025

SDS Number:  
1560318-00017

Date of last issue: 28.09.2024  
Date of first issue: 14.04.2017

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dichlofenthion Formulation

#### Manufacturer or supplier's details

Company : MSD

Address : Briahnager - Off Pune Nagar Road  
Wagholi - Pune - India 412 207

Telephone : +1-908-740-4000

Emergency telephone number : +1-908-423-6000

E-mail address : EHSDATASTEWARD@msd.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product

Restrictions on use : Not applicable

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### 2. HAZARDS IDENTIFICATION

#### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

##### Classification

Highly flammable liquids

##### GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Sub-category 1B

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity (Oral) : Category 1A

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 1 (Nervous system)

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Specific target organ toxicity - : Category 3  
single exposure

Specific target organ toxicity - : Category 2 (Nervous system, Respiratory Tract)  
repeated exposure

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H313 May be harmful in contact with skin. 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). H373 May cause damage to organs (Nervous system, Respiratory Tract) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<p><b>Prevention:</b></p> <p>P203 Obtain, read and follow all safety instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours. P264+P265 Wash hands thoroughly after handling. Do not touch eyes. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or with adequate ventilation. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>Response:</b></p>

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P301 + P330 + P331 + P316 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get emergency medical help immediately.  
P302 + P361 + P354 + P316 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Get emergency medical help immediately.  
P304 + P340 + P316 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.  
P305 + P354 + P338 + P316 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help immediately.  
P308 + P316 IF exposed or concerned: Get emergency medical help immediately.  
P331 Do NOT induce vomiting.  
P333 + P317 If skin irritation or rash occurs: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Vapours may form explosive mixture with air.

## 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
Tar, coal	8007-45-2	>= 10 - < 20
Ethylbenzene	100-41-4	>= 5 - < 10
Xylene	1330-20-7	>= 5 - < 10
Dichlofenthion (ISO)	97-17-6	>= 3 - < 5
Sodium hydroxide	1310-73-2	>= 2 - < 3
Phenol	108-95-2	>= 1 - < 2.5
m-Cresol	108-39-4	>= 1 - < 2.5
p-Cresol	106-44-5	>= 1 - < 2.5

## 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 medical

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	advice.
If inhaled	<ul style="list-style-type: none"><li>: If inhaled, remove to fresh air.</li><li>  If not breathing, give artificial respiration.</li><li>  If breathing is difficult, give oxygen.</li><li>  Get medical attention immediately.</li></ul>
In case of skin contact	<ul style="list-style-type: none"><li>: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li><li>  Get medical attention immediately.</li><li>  Wash clothing before reuse.</li></ul>
In case of eye contact	<ul style="list-style-type: none"><li>: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li><li>  If easy to do, remove contact lens, if worn.</li><li>  Get medical attention immediately.</li></ul>
If swallowed	<ul style="list-style-type: none"><li>: If swallowed, DO NOT induce vomiting.</li><li>  If vomiting occurs have person lean forward.</li><li>  Call a physician or poison control centre immediately.</li><li>  Rinse mouth thoroughly with water.</li><li>  Never give anything by mouth to an unconscious person.</li></ul>
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"><li>: Causes digestive tract burns.</li><li>  Harmful if swallowed.</li><li>  May be fatal if swallowed and enters airways.</li><li>  May be harmful in contact with skin.</li><li>  May cause an allergic skin reaction.</li><li>  Causes serious eye damage.</li><li>  May cause respiratory irritation.</li><li>  Suspected of causing genetic defects.</li><li>  May cause cancer if swallowed.</li><li>  Suspected of damaging the unborn child.</li><li>  Causes damage to organs.</li><li>  May cause damage to organs through prolonged or repeated exposure.</li><li>  Causes severe burns.</li></ul>
Protection of first-aiders	<ul style="list-style-type: none"><li>: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).</li></ul>
Notes to physician	<ul style="list-style-type: none"><li>: Treat symptomatically and supportively.</li></ul>

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## 5. FIREFIGHTING MEASURES

Suitable extinguishing media	<ul style="list-style-type: none"><li>: Water spray</li><li>  Alcohol-resistant foam</li><li>  Carbon dioxide (CO<sub>2</sub>)</li><li>  Dry chemical</li></ul>
Unsuitable extinguishing media	<ul style="list-style-type: none"><li>: High volume water jet</li></ul>
Specific hazards during fire-fighting	<ul style="list-style-type: none"><li>: Do not use a solid water stream as it may scatter and spread fire.</li><li>  Flash back possible over considerable distance.</li><li>  Vapours may form explosive mixtures with air.</li><li>  Exposure to combustion products may be a hazard to health.</li></ul>

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Hazardous combustion products	: Carbon oxides Metal oxides Nitrogen oxides (NOx)
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## 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-

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	ment.
Advice on safe handling	<ul style="list-style-type: none"><li>: Do not get on skin or clothing.</li><li>Do not breathe vapours.</li><li>Do not swallow.</li><li>Do not get in eyes.</li><li>Wash skin thoroughly after handling.</li><li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li><li>Non-sparking tools should be used.</li><li>Keep container tightly closed.</li><li>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers.</li><li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li><li>Take precautionary measures against static discharges.</li><li>Do not eat, drink or smoke when using this product.</li><li>Take care to prevent spills, waste and minimize release to the environment.</li></ul>
Conditions for safe storage	<ul style="list-style-type: none"><li>: Keep in properly labelled containers.</li><li>Store locked up.</li><li>Keep tightly closed.</li><li>Keep in a cool, well-ventilated place.</li><li>Store in accordance with the particular national regulations.</li><li>Keep away from heat and sources of ignition.</li></ul>
Materials to avoid	<ul style="list-style-type: none"><li>: Do not store with the following product types:</li><li>Self-reactive substances and mixtures</li><li>Organic peroxides</li><li>Oxidizing agents</li><li>Flammable gases</li><li>Pyrophoric liquids</li><li>Pyrophoric solids</li><li>Self-heating substances and mixtures</li><li>Poisonous gases</li><li>Explosives</li></ul>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Rosin	8050-09-7	TWA (Inhal- able particu- late matter)	0.001 mg/m <sup>3</sup> (total Resin acids)	ACGIH
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
Xylene	1330-20-7	TWA	100 ppm 435 mg/m <sup>3</sup>	IN OEL
		STEL	150 ppm 655 mg/m <sup>3</sup>	IN OEL

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Dichlofenthion (ISO)	97-17-6	TWA TWA	20 ppm 20 µg/m <sup>3</sup> (OEB 3)	ACGIH Internal
Further information: Skin				
Sodium hydroxide	1310-73-2	Wipe limit CEIL	200 µg/100 cm <sup>2</sup> 2 mg/m <sup>3</sup>	Internal IN OEL
Phenol	108-95-2	C	2 mg/m <sup>3</sup>	ACGIH
		TWA	5 ppm 19 mg/m <sup>3</sup>	IN OEL
Further information: Potential contribution to the overall exposure by the cutaneous route including mucous membranes and eye.				
m-Cresol	108-39-4	TWA TWA	5 ppm 5 ppm 22 mg/m <sup>3</sup>	ACGIH IN OEL
		Further information: Potential contribution to the overall exposure by the cutaneous route including mucous membranes and eye.		
p-Cresol	106-44-5	TWA TWA	20 mg/m <sup>3</sup> 5 ppm 22 mg/m <sup>3</sup>	ACGIH IN OEL
		Further information: Potential contribution to the overall exposure by the cutaneous route including mucous membranes and eye.		
		TWA (Inhalable fraction and vapor)	20 mg/m <sup>3</sup>	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Ethylbenzene	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
Xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g creatinine	ACGIH BEI
Phenol	108-95-2	Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g creatinine	ACGIH BEI

### Engineering measures

: Use appropriate engineering controls and manufacturing

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technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

### Personal protective equipment

Respiratory protection	: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	
Hand protection	: Combined particulates and organic vapour type
Material	: Chemical-resistant gloves
Remarks	: Consider double gloving. Take note that the product is flammable, which may impact the selection of hand protection.
Eye protection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous liquid
Colour	: dark, brown

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Odour : strong

Odour Threshold : No data available

pH : 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

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

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1,009 - 1,051 g/cm³ (20 °C)

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics

Particle size : Not applicable

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## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
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### Acute toxicity

Harmful if swallowed.  
May be harmful in contact with skin.

### 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: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 3,724 mg/kg Method: Calculation method

### Components:

#### Tar, wood:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
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#### Rosin:

Acute oral toxicity	:	LD50 (Rat): 2,800 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

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### Tar, coal:

Acute oral toxicity	:	LD50 (Rat): 1,700 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

### Ethylbenzene:

Acute oral toxicity	:	LD50 (Rat): 3,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 17.8 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

### Xylene:

Acute oral toxicity	:	LD50 (Rat): 3,523 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.
Acute inhalation toxicity	:	LC50 (Rat): 27.571 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 4,200 mg/kg

### Dichlofenthion (ISO):

Acute oral toxicity	:	LD50 (Rat): 172 mg/kg LD50 (Rat): 270 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 1.75 mg/l
Acute dermal toxicity	:	LD50 (Rat): 355 mg/kg LD50 (Rabbit): 6,000 mg/kg

### Sodium hydroxide:

Acute inhalation toxicity	:	Assessment: Corrosive to the respiratory tract.
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### Phenol:

Acute oral toxicity	:	LD50 (Rat): 650 mg/kg Method: OECD Test Guideline 401  Acute toxicity estimate (Humans): 140 - 290 mg/kg Method: Expert judgement
Acute inhalation toxicity	:	LC0 (Rat): 0.9 mg/l Exposure time: 8 h Test atmosphere: dust/mist Assessment: Corrosive to the respiratory tract.

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Acute toxicity estimate (Humans): > 0.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement

Acute dermal toxicity : LD50 (Rabbit): 660 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity estimate (Humans): 300 mg/kg  
Method: Expert judgement

### **m-Cresol:**

Acute oral toxicity : LD50 (Rat): 121 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 301 mg/kg  
Remarks: Based on data from similar materials

### **p-Cresol:**

Acute oral toxicity : LD50 (Rat): 172 - 250 mg/kg

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 213 - 426 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

### **Components:**

#### **Tar, wood:**

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 439

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 431

Result : Skin irritation

#### **Rosin:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Tar, coal:**

Species : Rabbit  
Result : Mild skin irritation

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### Xylene:

Species	:	Rabbit
Result	:	Skin irritation

### Dichlofenthion (ISO):

Result	:	Mild skin irritation
Remarks	:	Based on data from similar materials

### Sodium hydroxide:

Result	:	Corrosive after 3 minutes or less of exposure
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### Phenol:

Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure

### m-Cresol:

Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure

### p-Cresol:

Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Causes serious eye damage.

### Components:

#### Tar, wood:

Result	:	Irritation to eyes, reversing within 7 days
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#### Rosin:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

#### Tar, coal:

Species	:	Human
Result	:	Irreversible effects on the eye

#### Xylene:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

#### Sodium hydroxide:

Result	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

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### Phenol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

### m-Cresol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

### p-Cresol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Tar, wood:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	positive
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans

#### Rosin:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

#### Tar, coal:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	positive
Remarks	:	Based on data from similar materials

Assessment	:	Probability or evidence of skin sensitisation in humans
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### Xylene:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Result	:	negative

### Dichlofenthion (ISO):

Exposure routes	:	Dermal
Assessment	:	Does not cause skin sensitisation.
Result	:	Weak sensitizer
Remarks	:	Based on data from similar materials

### Sodium hydroxide:

Test Type	:	Human repeat insult patch test (HRIPT)
Exposure routes	:	Skin contact
Result	:	negative

### Phenol:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

### p-Cresol:

Test Type	:	Draize Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

### Germ cell mutagenicity

Suspected of causing genetic defects.

### Components:

#### Tar, wood:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
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#### Rosin:

Genotoxicity 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

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Method: OECD Test Guideline 473  
Result: negative

### Tar, coal:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive  
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Positive result(s) from in vivo non-mammalian somatic cell mutagenicity tests, supported by positive results from in vitro mutagenicity assays.  
Remarks: Based on national or regional regulation.

### Ethylbenzene:

Genotoxicity 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

Genotoxicity in vivo : 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

### Xylene:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Application Route: Skin contact  
Result: negative

### Phenol:

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Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive Remarks: Annex VI From 1272/2008
Germ cell mutagenicity - Assessment	: Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.

### m-Cresol:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 475 Result: negative

### p-Cresol:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
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

### Carcinogenicity

May cause cancer if swallowed.

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### Components:

#### **Tar, coal:**

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	positive
Carcinogenicity - Assessment	:	Positive evidence from human epidemiological studies (oral) Remarks: Based on national or regional regulation.

#### **Ethylbenzene:**

Species	:	Rat
Application Route	:	inhalation (vapour)
Exposure time	:	104 weeks
Result	:	positive
Remarks	:	The mechanism or mode of action may not be relevant in humans.

#### **Xylene:**

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	103 weeks
Result	:	negative

#### **Phenol:**

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks
Method	:	OECD Test Guideline 451
Result	:	negative

#### **m-Cresol:**

Species	:	Mouse, males
Application Route	:	Ingestion
Exposure time	:	105 weeks
Result	:	equivocal
Remarks	:	Based on data from similar materials

Species	:	Mouse, female
Application Route	:	Ingestion
Exposure time	:	106 - 107 weeks
Result	:	positive
Remarks	:	Based on data from similar materials

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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### p-Cresol:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	106 - 107 weeks
Result	:	negative
Remarks	:	Based on data from similar materials

### Reproductive toxicity

Suspected of damaging the unborn child.

### Components:

#### Rosin:

Effects on fertility	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative

#### Ethylbenzene:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 416 Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: Inhalation Method: OECD Test Guideline 414 Result: negative

#### Xylene:

Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative

### Dichlofenthion (ISO):

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Effects on foetal development	: Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 80 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects. Remarks: Based on data from similar materials
	Test Type: Development Species: Rat Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Reduced foetal weight, Embryotoxic effects., No teratogenic effects Remarks: Based on data from similar materials
Reproductive toxicity - Assessment	: Suspected of damaging the unborn child.
<b>Phenol:</b>	
Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on foetal development	: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative
<b>m-Cresol:</b>	
Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal development	: Test Type: Prenatal development toxicity study (teratogenicity) Species: Rat Application Route: Ingestion Result: negative
<b>p-Cresol:</b>	
Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

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### STOT - single exposure

May cause respiratory irritation.  
Causes damage to organs (Nervous system).

#### Components:

##### **Tar, coal:**

Exposure routes	:	Ingestion
Target Organs	:	Nervous system
Assessment	:	Shown to produce significant health effects in animals at concentrations of 300 mg/kg bw or less.

##### **Xylene:**

Assessment	:	May cause respiratory irritation.
------------	---	-----------------------------------

### STOT - repeated exposure

May cause damage to organs (Nervous system, Respiratory Tract) through prolonged or repeated exposure.

#### Components:

##### **Tar, coal:**

Target Organs	:	Respiratory Tract
Assessment	:	Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

Exposure routes	:	inhalation (dust/mist/fume)
Target Organs	:	Respiratory Tract
Assessment	:	Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

##### **Ethylbenzene:**

Exposure routes	:	inhalation (vapour)
Target Organs	:	Auditory system
Assessment	:	Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

##### **Xylene:**

Exposure routes	:	inhalation (vapour)
Target Organs	:	Auditory system
Assessment	:	Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

### Dichlofenthion (ISO):

Target Organs	:	Nervous system
Assessment	:	Causes damage to organs through prolonged or repeated exposure.
Remarks	:	Based on human experience.

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### Phenol:

Target Organs Assessment

- : Central nervous system, Kidney, Liver, Skin
- : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### Rosin:

Species  
NOAEL  
Application Route  
Exposure time  
Method

- : Rat, male
- : 335 mg/kg
- : Ingestion
- : 90 Days
- : OECD Test Guideline 408

##### Ethylbenzene:

Species  
LOAEL  
Application Route  
Exposure time

- : Rat
- : 0.868 mg/l
- : inhalation (vapour)
- : 13 Weeks

Species  
NOAEL  
LOAEL  
Application Route  
Method

- : Rat
- : 75 mg/kg
- : 250 mg/kg
- : Ingestion
- : OECD Test Guideline 408

##### Xylene:

Species  
LOAEL  
Application Route  
Exposure time  
Remarks

- : Rat
- : > 0.2 - 1 mg/l
- : inhalation (vapour)
- : 13 Weeks
- : Based on data from similar materials

Species  
LOAEL  
Application Route  
Exposure time

- : Rat
- : 150 mg/kg
- : Ingestion
- : 90 Days

##### Dichlofenthion (ISO):

Species  
NOAEL  
Application Route  
Exposure time

- : Rat
- : 0.75 mg/kg
- : Oral
- : 90 d

Species  
NOAEL  
Application Route  
Exposure time

- : Dog
- : 0.75 mg/kg
- : Oral
- : 90 d

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### **Phenol:**

Species	:	Rat
LOAEL	:	300 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Method	:	OECD Test Guideline 408

Species	:	Rat
NOAEL	:	>= 0.1 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	74 Days

Species	:	Rabbit
LOAEL	:	260 mg/kg
Application Route	:	Skin contact
Exposure time	:	18 Days

### **m-Cresol:**

Species	:	Rat
NOAEL	:	150 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks
Method	:	OECD Test Guideline 408

### **p-Cresol:**

Species	:	Rat
NOAEL	:	50 mg/kg
LOAEL	:	175 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Method	:	OECD Test Guideline 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.
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### Experience with human exposure

#### Components:

##### Dichlofenthion (ISO):

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### 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 Method: OECD Test Guideline 201

NOELR ( Raphidocelis subcapitata (freshwater green alga)): 1,000 mg/l

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Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Tar, coal:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 250 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)): 2.8 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 ( Desmodesmus subspicatus (green algae)): 36 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOELR ( Desmodesmus subspicatus (green algae)): 5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### Ethylbenzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 ( Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l  
Exposure time: 96 h

NOEC ( Pseudokirchneriella subcapitata (green algae)): 3.4 mg/l  
Exposure time: 96 h

Toxicity to microorganisms : EC50 (Nitrosomonas sp.): 96 mg/l  
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.96 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)

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### Xylene:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 13.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: EC50 ( Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	: NOEC: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Toxicity to fish (Chronic toxicity)	: NOEC: > 0.1 - < 1 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EL10: > 1 - 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials

### Dichlofenthion (ISO):

Toxicity to fish	: LC50 (No species specified): 0.64 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.23 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.0011 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
M-Factor (Acute aquatic toxicity)	: 100
M-Factor (Chronic aquatic toxicity)	: 100

### Phenol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 24.9 mg/l Exposure time: 96 h
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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 3.1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 ( Selenastrum capricornutum (green algae)): 61.1 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	IC50 (Nitrosomonas sp.): 21 mg/l Exposure time: 24 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.077 mg/l Exposure time: 60 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 10 mg/l Exposure time: 16 d Species: Daphnia magna (Water flea)

### m-Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): > 99.5 mg/l Exposure time: 48 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.35 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials

### p-Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to algae/aquatic plants	:	EC50 ( Desmodesmus subspicatus (green algae)): 7.8 mg/l Exposure time: 48 h  EC10 ( Desmodesmus subspicatus (green algae)): 2.3 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	IC50 (Nitrosomonas sp.): 260 mg/l Exposure time: 24 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.35 mg/l Exposure time: 32 d

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Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Persistence and degradability

#### Components:

##### **Tar, wood:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 47 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Rosin:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 71 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **Ethylbenzene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 - 80 %  
Exposure time: 28 d

##### **Xylene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **Phenol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 62 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301C

##### **m-Cresol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **p-Cresol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %

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Exposure time: 8 d

### Bioaccumulative potential

#### Components:

##### **Tar, wood:**

Partition coefficient: n-octanol/water : log Pow: 0.2 - 2.02

##### **Rosin:**

Partition coefficient: n-octanol/water : log Pow: > 3 - 6.2  
Method: OECD Test Guideline 117

##### **Tar, coal:**

Partition coefficient: n-octanol/water : Remarks: No data available

##### **Ethylbenzene:**

Partition coefficient: n-octanol/water : log Pow: 3.6

##### **Xylene:**

Partition coefficient: n-octanol/water : log Pow: 3.16  
Remarks: Calculation

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

Partition coefficient: n-octanol/water : log Pow: 5.14

##### **Phenol:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 17.5  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 1.47

##### **m-Cresol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): 17 - 20

Partition coefficient: n-octanol/water : log Pow: 1.96

##### **p-Cresol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): 17 - 20

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Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 1.94

### Mobility in soil

No data available

### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

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.

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## 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 : II  
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  
Labels : Corrosive, Flammable Liquids  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

#### IMDG-Code

UN number : UN 2920  
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Dichlofenthion Formulation

Version 7.0      Revision Date: 14.04.2025      SDS Number: 1560318-00017      Date of last issue: 28.09.2024  
Date of first issue: 14.04.2017

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(Sodium hydroxide, Ethylbenzene, Dichlofenthion (ISO), Tar, wood)

Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
EmS Code : F-E, S-C  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### 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.

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## 15. REGULATORY INFORMATION

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

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

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

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## 16. OTHER INFORMATION

Revision Date : 14.04.2025

#### Further information

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

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

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
IN OEL : India. Permissible levels of certain chemical substances in work environment.  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / C : Ceiling limit  
IN OEL / TWA : Time-Weighted Average Concentration (TWA) (8 hrs.)  
IN OEL / STEL : Short-term exposure Limit STEL (15 min)

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IN OEL / CEIL

: ceiling limit

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; KECL - 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.

IN / EN