

(GB) Page 1 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.11.2023 / 0035 Replacing version dated / version: 10.03.2023 / 0034 Valid from: 12.11.2023 PDF print date: 18.03.2024 Catalytic-System Clean

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

## **1.1 Product identifier**

# Catalytic-System Clean

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

Additives Uses advised against: No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

### **1.4 Emergency telephone number**

Emergency information services / official advisory body:

### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

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

#### 2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement Asp. Tox. 1 3

Aquatic Chronic

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)





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H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting. P405-Store locked up. P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C10, aromatics, >1% naphthalene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### 2.3 Other hazards

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The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

#### 3.1 Substances

# n.a. **? ? Mixtures**

3.2 MIXtures	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	
content %	80-<100
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	926-141-6
CAS	
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304
Hydrocarbons, C10, aromatics, >1% naphthalene	
Registration number (REACH)	01-2119463588-24-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	919-284-0
CAS	(64742-94-5)
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Carc. 2, H351
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Naphthalene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-052-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	202-049-5



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CAS	91-20-3
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Carc. 2, H351
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	ATE (oral): 490 mg/kg

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here. No classification is required for the mixture with Carc. 2, H351, as the naphthalene content in the product is < 1 %. No other ingredients with this classification are present.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Protective hand cream recommended.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately. Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the eyes Irritation of the respiratory tract Headaches Dizziness Effects/damages the central nervous system Coordination disorders Unconsciousness Liver and kidney damage Blood count modifications Nausea Vomiting Danger of aspiration. Oedema of the lungs In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed



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Ingestion: Activated carbon Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.

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

#### 5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Foam Water jet spray **Unsuitable extinguishing media** High volume water jet

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#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Hydrocarbons Toxic pyrolysis products. Explosive vapour/air or gas/air mixtures.

#### **5.3 Advice for firefighters**

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

#### If applicable, caution - risk of slipping. 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

#### Ensure sufficient ventilation. 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.



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#### 7.1 Precautions for safe handling 7.1.1 General recommendations

Ensure good ventilation. Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke. Do not heat to temperatures close to flash point. Avoid contact with eyes or skin. Do not carry cleaning cloths soaked in product in trouser pockets. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Solvent resistant floor Do not store with oxidizing agents. Store in a well ventilated place. Protect from direct sunlight and warming.

### 7.3 Specific end use(s)

#### No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

#### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

Chemical Name	Hydrocarbons, C10	-C13, n-alkanes, isoalkanes, cycli	cs, <2% aromatics	
WEL-TWA: 800 mg/m3		WEL-STEL:	· ·	
Monitoring procedures:	- D	raeger - Hydrocarbons 0,1%/c (81	03 571)	
	- D	raeger - Hydrocarbons 2/a (81 03	581)	
	- C	compur - KITA-187 S (551 174)		
BMGV:			Other information: (O	EL acc. to RCP-method,
			paragraphs 84-87, EH4	40)
Chemical Name	Hydrocarbons, C11	-C14, n-alkanes, isoalkanes, cycli	cs, <2% aromatics	
WEL-TWA: 1200 mg/m3 (>=C7 no	rmal and branched	WEL-STEL:		
chain alkanes)				
Monitoring procedures:	- D	raeger - Hydrocarbons 0,1%/c (81	03 571)	
	- D	raeger - Hydrocarbons 2/a (81 03	581)	
	- C	ompur - KITA-187 S (551 174)		
BMGV:			Other information:	
Chemical Name	Hydrocarbons, C10	, aromatics, >1% naphthalene		
WEL-TWA: 500 mg/m3 (Aromatics		WEL-STEL:		
Monitoring procedures:	- D	raeger - Hydrocarbons 0,1%/c (81	03 571)	
	- D	raeger - Hydrocarbons 2/a (81 03	581)	
	- C	compur - KITA-187 S (551 174)		
BMGV:			Other information:	
Chemical Name	Naphthalene			



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WEL-TWA: 500 mg/m3 (Aromatics) (WEL-TWA), 10	WEL-STEL:	
ppm (50 mg/m3) (EU)		
Monitoring procedures: -	Compur - KITA-153 U(C) (551 182)	
-	NIOSH 5506 (POLYNUCLEAR AROMATIC HYDROCARBC	NS by HPLC) - 1998
-	NIOSH 5515 (POLYNUCLEAR AROMATIC HYDROCARBC	NS by GC) - 1994
-	OSHA 35 (Napthalene) - 1982	
BMGV·	Other information:	

Hydrocarbons, C10, aromatics, >1% naphthalene Effect on health Descriptor Unit Area of application Exposure route / Value Note Environmental compartment DNEL 7,5 Consumer Long term, systemic Human - dermal mg/kg bw/day effects Consumer Human - inhalation Long term, systemic DNEL 32 mg/m3 effects DNEL Consumer Human - oral Long term, systemic 7,5 mg/kg bw/day effects Workers / employees Human - dermal Long term, systemic DNEL 12,5 mg/kg bw/day effects Workers / employees Human - inhalation Long term, systemic DNEL 151 mg/m3 effects

Naphthalene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	2,4	µg/l	
	Environment - marine		PNEC	0,24	µg/l	
	Environment - sewage treatment plant		PNEC	2,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,0672	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0672	mg/kg dry weight	
	Environment - soil		PNEC	0,0533	mg/kg dry weight	
	Environment - sporadic (intermittent) release		PNEC	0,02	mg/l	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	

Inited Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on

Occupational Exposure Limits (SCOEL)) | | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be

absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:



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(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

## 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). If applicable Protective Viton® / fluoroelastomer gloves (EN ISO 374). Permeation time (penetration time) in minutes: >480 Minimum layer thickness in mm: 0,4 Protective hand cream recommended. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

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

### 9.1 Information on basic physical and chemical properties

Physical state:



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Colour:

Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

# 9.2 Other information

Explosives:

Oxidising liquids:

Light yellow Clear Characteristic There is no information available on this parameter. 145 °C Flammable There is no information available on this parameter. There is no information available on this parameter. >61 °C There is no information available on this parameter. There is no information available on this parameter. Mixture is non-soluble (in water). <7 mm2/s (40°C) Insoluble Does not apply to mixtures. There is no information available on this parameter. 0,7989 g/ml (20°C) Vapours heavier than air. Does not apply to liquids.

Product is not explosive. When using: development of explosive vapour/air mixture possible.

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** Heating, open flame, ignition sources **10.5 Incompatible materials** Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** 

No decomposition when used as directed.

### **SECTION 11: Toxicological information**

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

Possibly more information on health effects, see Section 2.1 (classification).

Catalytic-System Clean						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						negative, the
						real
						Naphthalene
						content is <1%
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.0.23 / 0035 PDF pint date: 18.03.2024 Catalytic-System Clean Specific target organ toxicity - repeated exposure (STOT-RE): Acute toxicity, by dermal route: LD50 >5000 mg/kg Rat Pydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Toxicity / effect Acute toxicity, by dermal route: LD50 >5000 mg/kg Rat Value toxicity, by dermal route: LD50 >5000 mg/kg Rat OECD 401 (Acute Oral Toxicity), by dermal route: LD50 >5000 mg/kg Rat OECD 402 (Acute Oral Toxicity), by dermal route: LD50 >5000 mg/kg Rat OECD 402 (Acute Oral Toxicity), by dermal route: LD50 >5000 mg/kg Rat OECD 402 (Acute Oral Toxicity), by dermal route: LD50 >4951 mg/kg Rat OECD 403 (Acute Oral Toxicity), by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Serious eye damage/irritation: Germ cell mutagenicity: Carcinogenicity:	B Page 9 of 18						
Replacing version dated / version: 10.03.2023 / 0034 Valid from: 12.1.2023 Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - transformation - Specific target organ toxicity - repeated exposure (STOT-RE): Serious eye damage/irritation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity - repeated exposure (STOT-RE): Serious eye damagenicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity - repeated exposure (STOT-RE): Serious eye damagenicity: Carcinogenicity: Car			) No 1907/2006	, Annex II			
Valid forcin: 12.11.2023 PDF print date: 18.03.2024 Catalytic-System Clean			1 200 4				
PDF print date: 18.03.2024         Catalytic-System Clean         Sycolific target organ toxicity- repeated exposure (STOT-RE):       n.d.a.         Symptoms:       n.d.a.         Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics       n.d.a.         Toxicity/ effect       Endpoint       Value         Acute toxicity, by oral route:       LD50       >5000       mg/kg       Rat       Test method       Notes         Acute toxicity, by oral route:       LD50       >5000       mg/kg       Rat       OECD 404 (Acute Oral Conclusion)       Analogous         Acute toxicity, by inhalation:       LC50       >4951       mg/m3/4h       Rat       OECD 404 (Acute Analogous conclusion, conclusion, conclusion, vapours       Analogous conclusion, vapours         Skin corrosion/irritation:       LC50       >4951       mg/m3/4h       Rat       OECD 404 (Acute Acute Koulsion, vapours       Not irritant, analogous conclusion, conclusion, analogous conclusion, analogous conclusion, don analogous conclusion, don analogous conclusion, donalogous conclusion, don analogous <br< th=""><th></th><th>n: 10.03.2023</th><th>/ 0034</th><th></th><th></th><th></th><th></th></br<>		n: 10.03.2023	/ 0034				
Catalytic-System Clean       n.d.a.         Specific target organ toxicity- repeated exposure (STOT-RE):       n.d.a.         Aspiration hazard:       n.d.a.         Symptoms:       n.d.a.         Toxicity/ offfect       Endpoint         Acute toxicity, by oral route:       LD50         LD50       >5000         mg/kg       Rat         OECD 401 (Acute National Acute toxicity), by dermal route:       LD50         LD50       >5000       mg/kg         Acute toxicity, by dermal route:       LD50       >5000         Acute toxicity, by inhalation:       LC60       >4951         Skin corrosion/irritation:       LC60       >4951       mg/m3/4h         Respiratory or skin       Serious eye damage/irritation:       OECD 400 (Acute Eye Irritation/Corrosion)       Analogous corrolusion, analogous corrolusion         Serious eye damage/irritation:       Serious eye damage/irritation:       OECD 406 (Skin       Analogous corrolusion, analogous corrolusion, analogous corrolusion         Germ cell mutagenicity:       Salmonella       OECD 471 (Muranellan Acute)       Analogous corrolusion, analogous corrol							
Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard:         n.d.a.         n.d.a.           Symptoms:         n.d.a.         n.d.a.           Hydrocarbons, C10-C13, nalkanes, isoalkanes, cyclics, <2% aromatics Toxicity / effect         Test method         Notes           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         Test method         Notes           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         OECD 404 (Acute Oral Toxicity)         Analogous           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         OECD 404 (Acute Oral Toxicity)         Analogous           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 404 (Acute Analogous         Analogous           Skin corrosion/Irritation:          OECD 404 (Acute Eve Initiation/Corrosion)         Not irritant, Analogous         Analogous         Conclusion, Analogous         Not irritant, Analogous         Not irritant, Analogous         Conclusion, Analogous         Not irritant, Analogous         Analogous         Conclusion, Analogous         Conclusion, Analogous         Conclusion, Analogous         Conclusion, Analogous         Conclusion, Analogous         Conclusion, Analogous         Conclusion, Analogous         C							
repeated exposure (STOT-RE): Symptoms:	Catalytic-System Clean						
repeated exposure (STOT-RE): Symptoms:		T		I	1	1	1
Aspiration hazard:       n.d.a.         Symptoms:       n.d.a.         Toxicity / effect       Endpoint       Value       Unit       Organism       Test method       Analogous         Acute toxicity, by oral route:       LD50       >5000       mg/kg       Rat       OECD 401 (Acute Oral       Analogous         Acute toxicity, by dermal route:       LD50       >5000       mg/kg       Rabbit       OECD 402 (Acute       Analogous         Acute toxicity, by inhalation:       LC50       >4951       mg/m3/4h       Rat       OECD 403 (Acute       Analogous         Acute toxicity, by inhalation:       LC50       >4951       mg/m3/4h       Rat       OECD 403 (Acute       Analogous         Skin corrosion/irritation:        OECD 404 (Acute       Dermal       Analogous       Conclusion, Vapours         Serious eve damage/irritation:        OECD 406 (Kaute Eve       Not irritant, Analogous       Conclusion       Conclusion<							n.d.a.
Symptoms:         India.           Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics         Toxicity / effect         Endpoint         Value         Unit         Organism         Test method         Notes           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         Toxicity / effect         Analogous conclusion           Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         DECD 402 (Acute Oral Toxicity)         Analogous conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 402 (Acute Analogous conclusion         Analogous conclusion           Skin corrosion/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 404 (Acute Not Irritant, Analogous conclusion         Not Irritant, Analogous conclusion           Serious eye damage/irritation:         Intration/Corrosion)         Not Irritant, Analogous conclusion         Conclusion         Analogous conclusion           Serious eye damage/irritation:         Intration/Corrosion)         Not Irritant, Analogous conclusion         Analogous conclusion         Conclusion           Germ cell mutagenicity:         Intration/Corrosion)         Rot Irritant, Analogous conclusion         Analogous conclusion         Conclusion	repeated exposure (STOT-RE):						
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics         Toxicity / effect         Indexter in the product of							
Toxicity / effect         Endpoint         Value         Unit         Organism         Test method         Notes           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         OECD 401 (Acute Oral Toxicity)         Analogous conclusion           Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         OECD 402 (Acute Dermal Toxicity)         Analogous conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Inhalation Toxicity)         Analogous conclusion, Vapours           Skin corrosion/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 404 (Acute Inhalation Toxicity)         Not irritant, Analogous conclusion, Vapours           Serious eye damage/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 405 (Acute Eye Irritation/Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:         LC50         Serious eye damage/irritation:         OECD 406 (Skin         Not estilizating Analogous conclusion           Germ cell mutagenicity:         LC50         Salmonella         OECD 473 (In Vitro Marmalian Chromosome Analogous conclusion         Negative, Analogous conclusion           Germ cell mutagenicity:         LC50         Sa	Symptoms:						n.d.a.
Toxicity / effect         Endpoint         Value         Unit         Organism         Test method         Notes           Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         OECD 401 (Acute Oral Toxicity)         Analogous conclusion           Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         OECD 402 (Acute Dermal Toxicity)         Analogous conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Inhalation Toxicity)         Analogous conclusion, Vapours           Skin corrosion/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 404 (Acute Inhalation Toxicity)         Not irritant, Analogous conclusion, Vapours           Serious eye damage/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 405 (Acute Eye Irritation/Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:         LC50         Serious eye damage/irritation:         OECD 406 (Skin         Not estilizating Analogous conclusion           Germ cell mutagenicity:         LC50         Salmonella         OECD 473 (In Vitro Marmalian Chromosome Analogous conclusion         Negative, Analogous conclusion           Germ cell mutagenicity:         LC50         Sa							
Acute toxicity, by oral route:         LD50         >5000         mg/kg         Rat         OECD 401 (Acute Oral Toxicity)         Analogous conclusion           Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         OECD 402 (Acute Dermal Inhalation Toxicity)         Analogous conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Dermal Inhalation Toxicity)         Analogous conclusion, vapours           Skin corrosion/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Dermal Inhalation Toxicity)         Analogous conclusion           Serious eye damage/irritation:         Dermal Serious eye damage/irritation:         OECD 406 (Acute Eye Initiation/Corrosion)         Not irritant, Analogous conclusion         Analogous conclusion           Germ cell mutagenicity:         OECD 406 (Skin Sensitisation)         OECD 473 (In Vitro Marmalian Chromosome conclusion         Analogous conclusion           Germ cell mutagenicity:         Salmonella typhimurium         OECD 474 (Marmalian Chromosome Chronic Toxicity/Carcinogenicity         Negative, Analogous conclusion           Reproductive toxicity:         Salmonella typhimurium         OECD 474 (Marmalian Corrologueity         Negative, Analogous conclusion           Reproductive toxicity:         Salmonella typhimurium         OECD 474					Orregiam	Teat math ad	Notos
Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         Conclusion         Conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 402 (Acute         Analogous conclusion, Vapours           Skin corrosion/irritation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute         Analogous conclusion, Vapours           Skin corrosion/irritation:         Dermal         Dermal         Not irritant, Dermal         Not irritant, Analogous conclusion, Vapours           Serious eye damage/irritation:         Dermal         OECD 406 (Skin         Not irritant, Analogous conclusion           sensitisation:         OECD 406 (Skin         Not irritant, Analogous conclusion         Analogous conclusion           germ cell mutagenicity:         OECD 406 (Skin         Not sensitization)         Analogous conclusion           Germ cell mutagenicity:         OECD 473 (In Vitro Negative, Analogous conclusion         Conclusion         Conclusion           Germ cell mutagenicity:         Salmonella         OECD 473 (In Vitro Negative, Analogous conclusion         Analogous conclusion           Germ cell mutagenicity:         Salmonella         OECD 474 (Mammalian Erythrocyte Chain (Chrome Chain							
Acute toxicity, by dermal route:         LD50         >5000         mg/kg         Rabbit         OECD 402 (Acute Dermal Toxicity)         Analogous conclusion           Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Inhalation Toxicity)         Analogous conclusion, Vapours           Skin corrosion/irritation:           OECD 403 (Acute Inhalation Toxicity)         Not irritant, Dapours           Serious eye damage/irritation:           OECD 405 (Acute Eye Inritator, Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:           OECD 406 (Skin Not sensitization)         Not isensitization Corrosion)         Analogous conclusion           Germ cell mutagenicity:           OECD 473 (In Vitro Not sensitization)         Not sensitization         Conclusion           Germ cell mutagenicity:           Salmonella typhimurium         OECD 473 (In Vitro Mammalian Conclusion Conclusion Conclusion Conclusion Conclusion Conclusion Conclusion Conclusion Conclusion         Not sensitization         Not	Acute toxicity, by oral route:	LD50	>5000	mg/ĸg	Rat		
Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         Dermal Toxicity)         conclusion, vapours           Skin corrosion/irritation:			5000		D-664		
Acute toxicity, by inhalation:         LC50         >4951         mg/m3/4h         Rat         OECD 403 (Acute Inhalation Toxicity)         Analogous conclusion, Vapours           Skin corrosion/irritation:         Dermal         OECD 404 (Acute Dermal Initiation Toxicity)         Not irritant, Dermal Initiation Toxicity)         Not irritant, Analogous conclusion, Vapours           Serious eye damage/irritation:         Dermal Initiation/Corrosion)         OECD 406 (Acute Eye Initiation/Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:         DECD 406 (Skin Sensitisation)         Not sensitizising Analogous conclusion         Not sensitizising Analogous conclusion           Germ cell mutagenicity:         DECD 473 (In Vitro Mamalian Conclusion Test)         Not sensitizising Analogous conclusion         Not sensitizising Analogous conclusion           Germ cell mutagenicity:         DECD 473 (In Vitro Manalian Conclusion Test)         Negative, Analogous conclusion         Negative, Analogous conclusion           Germ cell mutagenicity:         DECD 474 (Inammalian Erythrocyte Conclusion Test)         Negative, Analogous conclusion         Negative, Analogous conclusion           Carcinogenicity:         DECD 473 (Invitro Manalian Erythrocyte Conclusion Test)         Negative, Analogous conclusion         Negative, Analogous conclusion           Reproductive toxicity:         Erythrocyte Conclusion Test)         DECD 474 (Internati Test)         Negative, Analo	Acute toxicity, by dermai route:	LD50	>5000	mg/kg	Raddit		
Skin corrosion/irritation:     OECD 404 (Acute Dermal Irritation/Corrosion)     Not Irritant, Analogous conclusion       Serious eye damage/irritation:     OECD 405 (Acute Eye Irritation/Corrosion)     Not Irritant, Analogous conclusion       Respiratory or skin sensitisation:     OECD 406 (Skin Serious eye damage/irritation)     Not sensitizising Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome conclusion     Not sensitizising conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella Vphimurium     OECD 473 (In Vitro Mammalian Chromosome conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella Vphimurium     OECD 473 (In Vitro Mammalian Analogous conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella Vphimurium     OECD 474 (Mammalian Negative, Analogous conclusion     Negative, Analogous conclusion       Carcinogenicity:     Vphimurium     OECD 453 (Combined Toxicity/Carcinogenicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Inscrement Prese     Yes	A contract to the state of the second	1.050	4054	/ 0 / 4	<b>_</b>		
Skin corrosion/irritation:         Vapours           Skin corrosion/irritation:         OECD 404 (Acute Dermal Irritation/Corrosion)         Not irritant, Analogous conclusion           Serious eye damage/irritation:         OECD 405 (Acute Eye Irritation/Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:         OECD 406 (Skin Sensitisation)         Not irritant, Analogous conclusion           Germ cell mutagenicity:         OECD 473 (In Vitro Mammalian Chromosome Aberration Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         OECD 473 (In Vitro Mammalian Erythrocyte Chromosome Aberration Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella typhimurium         Vegative, Analogous conclusion           Germ cell mutagenicity:         Salmonella typhimurium         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella typhimurium         Negative, Analogous conclusion           Carcinogenicity:         Salmonella typhimurium         Negative, Analogous conclusion           Specific target organ toxicity - repeated exposure (STOT-RE):         OECD 474 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)         Negative, Analogous conclusion           Aspiration hazard:         Unconsciousnes , headaches, dizziness, mucous membrane         Yes	Acute toxicity, by innalation:	LC50	>4951	mg/m3/4n	Rat		
Skin corrosion/irritation:     OECD 404 (Acute Dermal Inritation/Corrosion)     Not irritant, Analogous conclusion       Serious eye damage/irritation:     OECD 405 (Acute Eye Irritation/Corrosion)     Not irritant, Analogous conclusion       Respiratory or skin sensitisation:     OECD 406 (Skin Sensitisation)     Not sensitizising Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Marmalian Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Marmalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     Negative, Analogous conclusion       Gerch 241 (Bacterial Developmental Toxicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 418 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     Yes						Inhalation Toxicity)	,
Serious eye damage/irritation:         Dermal Irritation/Corrosion)         Analogous conclusion           Serious eye damage/irritation:         OECD 405 (Acute Eye Irritation/Corrosion)         Not irritant, Analogous conclusion           Respiratory or skin sensitisation:         OECD 406 (Skin Sensitisation)         Not sensitizising Analogous conclusion           Germ cell mutagenicity:         OECD 473 (In Vitro Marmalian Chromosome Aberration Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         OECD 474 (Marmalian Erythrocyte Micronucleus Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella (typhimurium         OECD 471 (Bacterial Reverse Mutation Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella (typhimurium         OECD 471 (Bacterial Reverse Mutation Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella (typhimurium         OECD 474 (Marmalian Reverse Mutation Test)         Negative, Analogous conclusion           Garcinogenicity:         Salmonella (typhimurium         OECD 474 (Racterial Reverse Mutation Test)         Negative, Analogous conclusion           Specific target organ toxicity - repeated exposure (STOT-RE):         OECD 474 (Prenatal Developmental Toxicity Studies)         Negative, Analogous conclusion           Aspiration hazard:         Micronatal Symptoms:         Yes         Yes <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Serious eye damage/irritation:     Irritation/Corrosion)     conclusion       Serious eye damage/irritation:     OECD 405 (Acute Eye Irritation/Corrosion)     Not irritant, Analogous conclusion       Respiratory or skin sensitisation:     OECD 406 (Skin Sensitisation)     Not sensitizising Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Marconucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella Uphimurium     OECD 474 (Mammalian Erythrocyte Marconucleus Test)     Negative, Analogous conclusion       Carcinogenicity:     OECD 473 (In Vitro Mammalian Erythrocyte     Negative, Analogous conclusion     Negative, Analogous conclusion       Carcinogenicity:     OECD 474 (Mammalian Erythrocyte     Negative, Analogous conclusion     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 414 (Prenatal Developmental Toxicity Study)     Negative, Analogous conclusion       Appiration hazard:     Yes     Negative, Analogous conclusion     Negative, Analogous conclusion       Symptoms:     Yes     Unconsciousnes: , headaches, dizziness, mucous     Yes	Skin corrosion/irritation:						
Serious eye damage/irritation:     OECD 405 (Acute Eye Irritation/Corrosion)     Not irritant, Analogous conclusion       Respiratory or skin sensitisation:     OECD 406 (Skin Sensitisation)     Not sensitizising Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Analogous conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium Reverse Mutation Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium Reverse Mutation Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium Reverse Mutation Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium Sudies)     OECD 471 (Bacterial Reverse Mutation Test)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 473 (Chronic Toxicity/Carcinogenicity Study)     Negative, Analogous conclusion     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 414 (Prenatal Developmental Toxicity Analogous conclusion     Negative, Analogous conclusion       Aspiration hazard:     Yes     unconsciousnes: , headaches, dizziness, mucous     yes							
Respiratory or skin sensitisation:     OECD 406 (Skin Sensitisation)     Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 474 (Mammalian Conclusion     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 473 (In Vitro Mammalian     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 473 (Combined Chronic Toxicity/Carcinogenicity     Negative, Analogous conclusion       Reproductive toxicity:     OECD 473 (Combined Chronic Toxicity/Carcinogenicity     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Appriation hazard:     Yes     Yes		-					
Respiratory or skin sensitisation:ConclusionConclusionRespiratory or skin sensitisation:OECD 406 (Skin Sensitisation)Not sensitizising Analogous conclusionGerm cell mutagenicity:OECD 473 (In Vitro Mammalian Chromosome Aberration Test)Negative, Analogous conclusionGerm cell mutagenicity:OECD 474 (Mammalian Analogous conclusionNegative, Analogous conclusionGerm cell mutagenicity:OECD 474 (Mammalian Erythrocyte Micronucleus Test)Negative, Analogous conclusionGerm cell mutagenicity:Salmonella typhimuriumOECD 471 (Bacterial Reverse Mutation Test)Negative, Analogous conclusionGerm cell mutagenicity:Salmonella typhimuriumOECD 471 (Prenatal Developmental Toxicity Studies)Negative, Analogous conclusionReproductive toxicity:OECD 414 (Prenatal Developmental Toxicity Study)Negative, Analogous conclusionNegative, Analogous conclusionSpecific target organ toxicity - repeated exposure (STOT-RE):OECD 408 (Repeated Dose 90-Day Oral Rodents)Negative, Analogous conclusionAspiration hazard:YesSymptoms:Yes	Serious eye damage/irritation:						· · ·
Respiratory or skin sensitisation:     OECD 406 (Skin Sensitisation)     Not sensitizising Analogous conclusion       Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     Negative, Analogous conclusion       Carcinogenicity:     Salmonella typhimurium     OECD 471 (Bacterial Reverse Mutation Test)       Carcinogenicity:     OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 471 (Prenatal Developmental Toxicity Study)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes unconsciousnes: , headaches, dizziness, mucous     Yes						Irritation/Corrosion)	
sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Carcinogenicity: Carcinogenicity: Studies: Studies: Germ cell mutagenicity: Carcinogenicity:			_				
Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 471 (Bacterial Reverse Mutation Test)     Negative, Analogous conclusion       Carcinogenicity:     OECD 471 (Bacterial typhimurium     Negative, Analogous conclusion     Negative, Analogous conclusion       Reproductive toxicity:     OECD 414 (Prenatal Developmental Toxicity Analogous conclusion     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     Yes       Symptoms:     Yes     Unconsciousness , headaches, dizziness, mucous							
Germ cell mutagenicity:     OECD 473 (In Vitro Mammalian Chromosome Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Carcinogenicity:     Salmonella typhimurium     OECD 453 (Combined Chronic Toxicity/Carcinogenicity     Negative, Analogous conclusion       Reproductive toxicity:     OECD 414 (Prenatal Developmental Toxicity Studies)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     Yes     unconsciousness , headaches, dizziness, mucous membrane	sensitisation:					Sensitisation)	
Germ cell mutagenicity:     OECD 474 (Mammalian Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 474 (Mammalian Erythrocyte Micronucleus Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella typhimurium     OECD 471 (Bacterial Reverse Mutation Test)     Negative, Analogous conclusion       Carcinogenicity:     OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 411 (Prenatal Developmental Toxicity Study)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     unconsciousness , headaches, dizziness, mucous membrane     Yes		-					
Germ cell mutagenicity:         Chromosome Aberration Test)         conclusion           Germ cell mutagenicity:         OECD 474 (Mammalian Erythrocyte Micronucleus Test)         Negative, Analogous conclusion           Germ cell mutagenicity:         Salmonella Uphimurium         OECD 471 (Bacterial typhimurium         Negative, Analogous conclusion           Carcinogenicity:         OECD 473 (Combined Chronic Toxicity/Carcinogenicity Studies)         Negative, Analogous conclusion           Reproductive toxicity:         OECD 414 (Prenatal Developmental Toxicity Study)         Negative, Analogous conclusion           Specific target organ toxicity - repeated exposure (STOT-RE):         OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)         Negative, Analogous conclusion           Aspiration hazard:         Yes         unconsciousness , headaches, dizziness, mucous membrane         yes	Germ cell mutagenicity:						
Germ cell mutagenicity:     Aberration Test)     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella (typhimurium)     OECD 474 (Marmalian) Berythrocyte     Negative, Analogous conclusion       Germ cell mutagenicity:     Salmonella (typhimurium)     OECD 471 (Bacterial) Reverse Mutation Test)     Negative, Analogous conclusion       Carcinogenicity:     OECD 453 (Combined) Chronic     Negative, Analogous conclusion       Reproductive toxicity:     OECD 414 (Prenatal Developmental Toxicity Studies)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     unconsciousness , headaches, dizziness, mucous membrane     Yes							
Germ cell mutagenicity:       OECD 474 (Mammalian Erythrocyte Micronucleus Test)       Negative, Analogous conclusion         Germ cell mutagenicity:       Salmonella typhimurium       OECD 471 (Bacterial Reverse Mutation Test)       Negative, Analogous conclusion         Carcinogenicity:       OECD 473 (Combined Chronic Studies)       Negative, Analogous conclusion       Negative, Analogous conclusion         Reproductive toxicity:       OECD 453 (Combined Chronic Studies)       Negative, Analogous conclusion         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 414 (Prenatal Developmental Toxicity Study)       Negative, Analogous conclusion         Aspiration hazard:       Yes       Unconsciousnes: , headaches, dizziness, mucous membrane       Negative, Analogous conclusion							Conclusion
Germ cell mutagenicity:     Salmonella typhimurium     OECD 471 (Bacterial Reverse Mutation Test)     Negative       Carcinogenicity:     OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 414 (Prenatal Developmental Toxicity Study)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes     Unconsciousness , headaches, dizziness, mucous membrane     Yes		-	_				Magativo
Germ cell mutagenicity:Micronucleus Test)conclusionGerm cell mutagenicity:Salmonella typhimuriumOECD 471 (Bacterial Reverse Mutation Test)Negative Analogous conclusionCarcinogenicity:OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)Negative, Analogous conclusionReproductive toxicity:OECD 414 (Prenatal Developmental Toxicity Study)Negative, Analogous conclusionSpecific target organ toxicity - repeated exposure (STOT-RE):OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)Negative, Analogous conclusionAspiration hazard:VesSymptoms:Ves	Germ cell mutagenicity:						
Germ cell mutagenicity:       Salmonella typhimurium       OECD 471 (Bacterial Reverse Mutation Test)       Negative         Carcinogenicity:       OECD 453 (Combined Chronic       Negative, Analogous         Reproductive toxicity:       OECD 414 (Prenatal Developmental Toxicity       Negative, Analogous         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous         Aspiration hazard:       Yes       Unconsciousnes: , headaches, dizziness, mucous membrane       Yes							
Carcinogenicity:     Vegative, Analogous Chronic Toxicity/Carcinogenicity:       Reproductive toxicity:     OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)     Negative, Analogous conclusion       Reproductive toxicity:     OECD 414 (Prenatal Developmental Toxicity Study)     Negative, Analogous conclusion       Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes       Symptoms:     Unconsciousnest , headaches, dizziness, mucous     Yes	Corm coll mutagonicity:				Salmanalla		
Carcinogenicity:       OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)       Negative, Analogous conclusion         Reproductive toxicity:       OECD 414 (Prenatal Developmental Toxicity Study)       Negative, Analogous conclusion         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes       unconsciousness , headaches, dizziness, mucous membrane       Yes	Germ cell mutagenicity.						Negative
Reproductive toxicity:Analogous conclusionReproductive toxicity:OECD 414 (Prenatal Developmental Toxicity Study)Negative, Analogous conclusionSpecific target organ toxicity - repeated exposure (STOT-RE):OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)Negative, Analogous conclusionAspiration hazard:YesSymptoms:Unconsciousness , headaches, dizziness, mucous membrane	Carcinogonicity:	-			typninnununn		Nogativo
Reproductive toxicity:       Conclusion         Reproductive toxicity:       OECD 414 (Prenatal Developmental Toxicity Study)       Negative, Analogous conclusion         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes       unconsciousness, headaches, dizziness, mucous membrane       nedaches, dizziness, mucous membrane	Carcinogenicity.						
Reproductive toxicity:       Studies)         Reproductive toxicity:       OECD 414 (Prenatal Developmental Toxicity Study)       Negative, Analogous conclusion         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes       Unconsciousness, headaches, dizziness, mucous membrane       Negative, Analogous conclusion							
Reproductive toxicity:       OECD 414 (Prenatal Developmental Toxicity Study)       Negative, Analogous conclusion         Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes         Symptoms:       unconsciousness, nuccous membrane       neadaches, dizziness, mucous membrane							CONClusion
Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes         Symptoms:       unconsciousness, headaches, dizziness, mucous membrane	Poproductivo toxicity:	+					Mogative
Specific target organ toxicity - repeated exposure (STOT-RE):     OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)     Negative, Analogous conclusion       Aspiration hazard:     Yes       Symptoms:     unconsciousness , headaches, dizziness, mucous membrane	Reproductive toxicity.						
Specific target organ toxicity - repeated exposure (STOT-RE):       OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)       Negative, Analogous conclusion         Aspiration hazard:       Yes         Symptoms:       unconsciousness, headaches, dizziness, mucous membrane							
repeated exposure (STOT-RE): Aspiration hazard: Symptoms: Aspiration lazard: Aspiration hazard: Aspiration hazard: Symptoms: Aspiration hazard: Analogous conclusion Yes unconsciousness , headaches, dizziness, mucous membrane	Specific target organ toxicity -		_			OECD 408 (Repeated	
Aspiration hazard: Conclusion Symptoms: Ves unconsciousness, headaches, dizziness, mucous membrane							
Aspiration hazard: Symptoms:	repeated exposure $(5101-10L)$ .						
Aspiration hazard: Yes Symptoms: , headaches, dizziness, mucous membrane							CONClusion
Symptoms: unconsciousness, headaches, dizziness, mucous membrane	Appiration bazard:	+				Rouents)	Voc
, headaches, dizziness, mucous membrane							
dizziness, mucous membrane	Symptoms.						
mucous membrane							
membrane							

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	Vapours
			-		Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion



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Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	conclusion No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Mouse	in vivo	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	>=1000	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Aspiration hazard:						Yes
Symptoms:						drying of the skin., headaches, fatigue, dizziness, nausea, diarrhoea, vomiting

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by oral route:	LD50	6318	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	>4688	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion



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Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	conclusion No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Mammalian	OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells)	Negative, Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusionChine e hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative, Analogous conclusion
Reproductive toxicity (Developmental toxicity):	NOAEL	>450	mg/kg	Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Negative, Analogous conclusion
Reproductive toxicity (Effects on fertility):				Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 416 (Two- generation Reproduction Toxicity Study)	Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE):						Vapours may cause drowsiness and dizziness., STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 452 (Chronic Toxicity Studies)	Negative, Analogous conclusion
Aspiration hazard: Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	750	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Yes Negative, Analogous conclusion
Symptoms:					-,	drowsiness, headaches, drowsiness, dizziness
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	495	mg/kg	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Negative, Analogous conclusion



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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	1000	mg/m3	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Negative, Analogous conclusion
Naphthalene						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat	Test method	NUICS
Acute toxicity, by oral route:	ATE	490	mg/kg	Nai		
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rat		
Acute toxicity, by inhalation:	LD50	>0,4	mg/l/4h	Rat	OECD 403 (Acute	Vapours
	LD30	>0,4	mg/i/4n		Inhalation Toxicity)	
Respiratory or skin sensitisation:				Guinea pig		No (skin contact
Reproductive toxicity:	NOAEL	120	mg/kg	Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Female
Reproductive toxicity:	LOAEL	50	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Female
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAEL	400	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	1000	mg/kg	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	0,011	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Vapours
Symptoms:						lack of appetite, ataxia, breathing difficulties, unconsciousnes, , diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting., sweating, Reddening, eyes, reddened

# 11.2. Information on other hazards

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	



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Other information:				Repeated exposure may cause skin dryness or cracking.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Isolate as much
degradability:							as possible with
							an oil separator.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to the
							recipe, contains
							no AOX.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		10-2500			, , ,	High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other organisms:	EL50	48h	>1000	mg/l	Tetrahymen pyriformis		



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Water solubility:

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Product floats on the water surface.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSÁR	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		6-8				High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Water solubility:				1			Insoluble

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2-5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,48	mg/l	Daphnia magna		Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	3-10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell a subcapitata	,	
12.1. Toxicity to algae:	EC50	72h	1-3	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	58	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		2,8-6,5				High
12.3. Bioaccumulative ootential:	BCF		<100				Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Naphthalene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1. Toxicity to fish:	LC50	96h	1,99	mg/l	Pimephales	Does not
				-	promelas	conform with EU
						classification.
12.1. Toxicity to fish:	LC50	96h	0,51	mg/l		
12.1. Toxicity to fish:	LC50	96h	0,11	mg/l	Oncorhynchus	
-				_	mykiss	
12.1. Toxicity to daphnia:	NOEC/NOEL	>60d	0,6	mg/l	Daphnia pulex	
12.1. Toxicity to daphnia:	EC50	48h	1,6-24,1	mg/l	Daphnia magna	
12.1. Toxicity to algae:	LC50	4h	2,96	mg/l	Selenastrum	
				_	capricornutum	
12.1. Toxicity to algae:	ErC50	72h	0,4	mg/l	Skeletonema	
				_	costatum	
12.2. Persistence and		28d	2	%		Not readily
degradability:						biodegradable
12.3. Bioaccumulative	BCF	28d	40-300			Lowfish
potential:						
12.4. Mobility in soil:	Koc		817			
12.4. Mobility in soil:	Koc		240-			
			1300			
Other information:	BOD5		0	%		
Other information:	COD		22	%		
Other information:	Log Pow		3,3			

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 07 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## **SECTION 14: Transport information**

#### **General statements** Transport by road/by rail (ADR/RID)

Transport by road/by rall (ADR/RID)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	Not applicable
Classification code:	Not applicable
LQ:	Not applicable
Transport category:	Not applicable
Transport by sea (IMDG-code)	
14.1. UN number or ID number:	Not applicable

Not applicable



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14.2. UN proper shipping name: Not applicable 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: Marine Pollutant: EmS:

#### Transport by air (IATA)

14.1. UN number or ID number: 14.2. UN proper shipping name: Not applicable 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards:

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

#### SECTION 15: Regulatory information

Not applicable Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

94,8 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 

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Revised sections: These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

#### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard



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Aquatic Chronic — Hazardous to the aquatic environment - chronic Carc. — Carcinogenicity STOT SE — Specific target organ toxicity - single exposure - narcotic effects Acute Tox. — Acute toxicity - oral Aquatic Acute — Hazardous to the aquatic environment - acute

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) **Bioconcentration factor** BCF BSEF The International Bromine Council CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon for example (abbreviation of Latin 'exempli gratia'), for instance e.q. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax number Fax. general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA



ആ Page 18 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.11.2023 / 0035 Replacing version dated / version: 10.03.2023 / 0034 Valid from: 12.11.2023 PDF print date: 18.03.2024 Catalytic-System Clean IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships mg/kg bw mg/kg body weight mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg dry weight mg/kg dw mg/kg wet weight mg/kg wwt not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative The statements made here should describe the product with regard to the necessary safety precautions - they are

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:

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