

**Trade name:** ERC MPULSER**Product no.:** 1510**Current version :** 3.0.0, issued: 06.10.2022**Replaced version:** 2.0.4, issued: 03.11.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**ERC MPULSER****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Additive for mineral oil products

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**ERC Additiv GmbH  
Bäckerstraße 11-13  
21244 Buchholz  
Germany

Telephone no. +49 4181 216-500

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

Repr. 2; H361

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

hydrocarbons, C10, aromatics, &lt;1% naphthalene

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

**Hazard statement(s)**

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- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P391 Collect spillage.

**2.3 Other hazards**

- PBT assessment  
No data available.
- vPvB assessment  
No data available.

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

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>		
	- 918-811-1 - 01-2119463583-34	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 STOT SE 3; H336	>= 25.00 - < 50.00 wt%
2	<b>2,6-di-tert-butylphenol</b>		
	128-39-2 204-884-0 - 01-2119490822-33	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Irrit. 2; H315	>= 10.00 - < 25.00 wt%
3	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>		
	68411-46-1 270-128-1 - 01-2119491299-23	Repr. 2; H361f	>= 5.00 - < 10.00 wt%
4	<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>		
	- 918-481-9 - -	Asp. Tox. 1; H304 EUH066	< 5.00 wt%
5	<b>2-ethylhexan-1-ol</b>		
	104-76-7 203-234-3 - 01-2119487289-20	Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335 Acute Tox. 4; H332	< 2.50 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

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Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Take medical treatment.

**After skin contact**

In case of contact with skin wash off immediately with soap and water. Seek medical attention.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Do not induce vomiting - aspiration hazard. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious, place in recovery position (on left side, with head down). Call a doctor immediately and show label or packaging.

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

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Foam; Carbon dioxide; Extinguishing powder

**Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon dioxide (CO<sub>2</sub>); Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

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Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Provide eye wash fountain in work area.

**Advice on protection against fire and explosion**

Keep away from sources of heat and ignition.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**Recommended storage temperature**

Value < 50 °C

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Protect from heat and direct sunlight.

**Incompatible products**

Do not store together with: Acids; Alkalies; oxidizing agents

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
	2017/164/EU		
	2-ethylhexan-1-ol		
	WEL long-term (8-hr TWA reference period)	5.4	mg/m <sup>3</sup> 1 ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	2-ethylhexan-1-ol		
	WEL long-term (8-hr TWA reference period)	5.4	mg/m <sup>3</sup> 2 ppm
2	diphenylamine	122-39-4	204-539-4
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Diphenylamine		
	WEL short-term (15 min reference period)	20	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	hydrocarbons, C10, aromatics, <1% naphthalene			-
	dermal	Long term (chronic)	systemic	12.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	151 mg/m <sup>3</sup>
2	2,6-di-tert-butylphenol			128-39-2 204-884-0
	dermal	Long term (chronic)	systemic	11.25 mg/kg/day
	inhalative	Long term (chronic)	systemic	70.61 mg/m <sup>3</sup>
3	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			68411-46-1 270-128-1

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	dermal	Long term (chronic)	systemic	0.62	mg/kg/day
	inhalative	Long term (chronic)	systemic	4.37	mg/m <sup>3</sup>
4	<b>2-ethylhexan-1-ol</b>			<b>104-76-7 203-234-3</b>	
	dermal	Long term (chronic)	systemic	23	mg/kg/day
	inhalative	Short term (acut)	local	106.4	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	53.2	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>			<b>- 918-811-1</b>	
	oral	Long term (chronic)	systemic	7.5	mg/kg/day
	dermal	Long term (chronic)	systemic	7.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	32	mg/m <sup>3</sup>
2	<b>2,6-di-tert-butylphenol</b>			<b>128-39-2 204-884-0</b>	
	oral	Long term (chronic)	systemic	6.75	mg/kg/day
	inhalative	Long term (chronic)	systemic	20.90	mg/m <sup>3</sup>
3	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>			<b>68411-46-1 270-128-1</b>	
	oral	Long term (chronic)	systemic	0.31	mg/m <sup>3</sup>
	dermal	Long term (chronic)	systemic	0.31	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.09	mg/m <sup>3</sup>
4	<b>2-ethylhexan-1-ol</b>			<b>104-76-7 203-234-3</b>	
	oral	Long term (chronic)	systemic	1.1	mg/kg/day
	dermal	Long term (chronic)	systemic	11.4	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.3	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	53.2	mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>2,6-di-tert-butylphenol</b>		<b>128-39-2 204-884-0</b>	
	water	fresh water	0.001	mg/L
	water	Aqua intermittent	0.004	mg/L
	water	fresh water sediment	0.317	mg/kg dry weight
	water	marine water	0	mg/L
	water	marine water sediment	0.032	mg/kg dry weight
	soil	-	0.697	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	60	mg/kg food
2	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>		<b>68411-46-1 270-128-1</b>	
	water	fresh water	0.051	mg/L
	water	marine water	0.0051	mg/L
	water	Aqua intermittent	0.51	mg/L
	water	fresh water sediment	9320	mg/kg
	with reference to: dry weight			
	water	marine water sediment	932	mg/kg
	with reference to: dry weight			
	soil	-	1860	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	1	mg/L
3	<b>2-ethylhexan-1-ol</b>		<b>104-76-7 203-234-3</b>	

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water	fresh water	0.017	mg/L
water	marine water	0.0017	mg/L
water	Aqua intermittent	0.17	mg/L
water	fresh water sediment	0.28	mg/kg
with reference to: dry weight			
water	marine water sediment	0.028	mg/kg
with reference to: dry weight			
soil	-	0.047	mg/kg
with reference to: dry weight			
sewage treatment plant	-	10	mg/L
secondary poisoning	-	55	mg/kg
with reference to: food			

**8.2 Exposure controls**

**Appropriate engineering controls**

No data available.

**Personal protective equipment**

**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. combination filter

Respirator EN14387-A

**Eye / face protection**

Safety glasses with side protection shield (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material In case of short-term contact / splash protection: PVC

Material thickness 0.8 mm

Breakthrough time 4 h

**Other**

Normal chemical work clothing.

Appropriate Material cotton

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
Various, depending on coloration	
<b>Odour</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	> 160 °C

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<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value	>	61	°C
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
log Pow		6.66	
Reference temperature		23	°C
Method		OECD 123	
Source		ECHA	
2	2-ethylhexan-1-ol	104-76-7	203-234-3
log Pow		2.9	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
<b>Kinematic viscosity</b>			
Value	<	20.5	mm <sup>2</sup> /s
Reference temperature		40	°C
Type	kinematic		
<b>Particle characteristics</b>			
No data available			

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

### 10.2 Chemical stability

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Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-ethylhexan-1-ol	104-76-7	203-234-3
LD50	>	2047	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
2	2-ethylhexan-1-ol	104-76-7	203-234-3
LD50	>	3000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	ERC MPULSER
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)).

Acute inhalational toxicity
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No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
LC50		1.1 - 4.3	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-ethylhexan-1-ol	104-76-7	203-234-3
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
3	2-ethylhexan-1-ol	104-76-7	203-234-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
Evaluation/classification	Based on available data, the classification criteria are met.		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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2	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species		rat	
Method		OECD 421	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species		Salmonella typhimurium	
Method		Ames-Test	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard			
No data available			

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
LL50		>= 2 - 5 mg/l	
Duration of exposure		96 h	
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
LC50		1.4 mg/l	

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Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 204		
Source	ECHA		
<b>3</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
LC50	>	100	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
<b>4</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
LC50		17.1	mg/l
Duration of exposure		96	h
Species	Leuciscus idus melanotus		
Source	ECHA		

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	<b>-</b>	<b>918-811-1</b>
EL50	>= 3	- 10	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
EC50		0.45	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
<b>3</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
EC50		51	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>4</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
EC50		39	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
NOEC		0.035	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>2</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
EC10		1.69	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
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<b>1</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	<b>-</b>	<b>918-811-1</b>
EL50	>=	1	3
Duration of exposure			72
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
EC50			1.2
Duration of exposure			72
Species	Pseudokirchneriella subcapitata		
Method	US-EPA		
Source	ECHA		
<b>3</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
EC50	>		100
Duration of exposure			72
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>4</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
EC50			11.5
Duration of exposure			72
Species	Desmodemus subspicatus		
Source	ECHA		

**Toxicity to algae (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
NOEC			0.64
Duration of exposure			96
Species	Pseudokirchneriella subcapitata		
Method	EPA OTS 797.1050		
Source	ECHA		

**Bacteria toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
EC50	>		1000
Duration of exposure			3
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
<b>2</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
IC50	>		100
Duration of exposure			3
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	<b>-</b>	<b>918-811-1</b>
Type	COD		
Value			49.56
Duration			28
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
<b>2</b>	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>	<b>68411-46-1</b>	<b>270-128-1</b>
Type	aerobic biodegradation		

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Value	1	%
Duration	28	day(s)
Method	OECD 301 B	
Source	ECHA	
Evaluation	not readily biodegradable	
<b>3</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b> <b>203-234-3</b>
Type	aerobic biodegradation	
Value	79	- 99.9 %
Duration	2	week/s
Method	OECD 301 C	
Source	ECHA	
Evaluation	readily biodegradable	

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1
log Pow		6.66	
Reference temperature		23	°C
Method	OECD 123		
Source	ECHA		
<b>2</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
log Pow		2.9	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

### 12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class 9  
Classification code M6

**Trade name:** ERC MPULSER

**Product no.:** 1510

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**Region:** GB

Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	hydrocarbons, C10, aromatics, <1% naphthalene 2,6-di-tert-butylphenol
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	hydrocarbons, C10, aromatics, <1% naphthalene 2,6-di-tert-butylphenol
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	hydrocarbons, C10, aromatics, <1% naphthalene 2,6-di-tert-butylphenol
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information**

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

**EU regulations**

**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

**Trade name:** ERC MPULSER**Product no.:** 1510**Current version :** 3.0.0, issued: 06.10.2022**Replaced version:** 2.0.4, issued: 03.11.2021**Region:** GB

This product is subject to Part I of Annex I, risk category:

E2

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH066	Repeated exposure may cause skin dryness or cracking.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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