



# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

## Cyclon XRP 60

Version number: 2.0  
Replaces version of: 2021-06-30 (1)

Revision: 2023-05-16

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

#### 1.1 Product identifier

Trade name **Cyclon XRP 60**  
Unique formula identifier (UFI) SK20-Y0A2-K00G-H54N

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

Relevant identified uses Surface protection agent  
Professional use  
Consumer use

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

Cyclon B.V.  
Scheltseweg 4c  
5374 EB Schaijk  
Netherlands

Telephone: (+31) 085 0204 122  
e-mail: sales@cyclon.nl  
Website: www.cyclon.nl

e-mail (competent person) sales@cyclon.nl

#### 1.4 Emergency telephone number

Emergency information service (+31) 085 0204 122  
This number is only available during the following office hours: Mon-Fri 09:00 - 16:30

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of H-phrases: see SECTION 16

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Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling (acc. to GB CLP)

- signal word                      Danger

- pictograms

GHS02, GHS07,  
GHS09



- hazard statements

H222                      Extremely flammable aerosol.  
H229                      Pressurised container: May burst if heated.  
H336                      May cause drowsiness or dizziness.  
H410                      Very toxic to aquatic life with long lasting effects.

- precautionary statements

P101                      If medical advice is needed, have product container or label at hand.  
P102                      Keep out of reach of children.  
P210                      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211                      Do not spray on an open flame or other ignition source.  
P251                      Do not pierce or burn, even after use.  
P312                      Call a POISON CENTRE/doctor if you feel unwell.  
P391                      Collect spillage.  
P403+P233              Store in a well-ventilated place. Keep container tightly closed.  
P410+P412              Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501                      Dispose of contents/container in accordance with local/regional/national/international regulations.

- supplemental hazard information

EUH066      Repeated exposure may cause skin dryness or cracking.

- hazardous ingredients for labelling

Contains: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Keep out of reach of children. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB  $\geq 0.1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture).

#### 3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No 920-750-0	25 – < 50	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	   	
Butane	CAS No 106-97-8  EC No 203-448-7  Index No 601-004-00-0	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280	 	C U
Propane	CAS No 74-98-6  EC No 200-827-9  Index No 601-003-00-5	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280	 	U(b)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No 919-857-5	10 – < 25	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 EUH066	   	
Isobutane (with < 0,1 % butadiene)	CAS No 75-28-5  EC No 200-857-2  Index No 601-004-00-0	2.5 – < 10	Flam. Gas 1A / H220 Press. Gas C / H280	 	C U(b)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC No 918-481-9	1 – < 2.5	Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412		

#### Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.



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Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No 919-857-5	-	M-factor (acute) = 100	>9.3 mg/l/4h	inhalation: vapour

### Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

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

Narcotic effects.

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

For specialist advice physicians should contact the poison centre.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray; Dry extinguishing powder;  
Co-ordinate firefighting measures to the fire surroundings.

#### Unsuitable extinguishing media

Water jet.

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

#### Hazardous combustion products

During fire hazardous fumes/smoke could be produced.



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### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.



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### Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

### Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

### - packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

There is no additional information.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
GB	butane	106-97-8	WEL	600	1,450	750	1,810		EH40/2005

#### Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	EC No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	DNEL	2,035 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	DNEL	608 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	DNEL	699 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	DNEL	699 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

### 8.2 Exposure controls

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### Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection

#### Skin protection



Chemical protective clothing.

#### - hand protection



Wear suitable gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### - type of material

Nitrile rubber

#### - material thickness

Use gloves with a minimum material thickness:  $\geq 0,38$  mm.

#### - breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material:  $>480$  minutes (permeation: level 6).

#### - other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory protection

During spraying wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid, gaseous (spray aerosol)
Colour	colourless
Odour	characteristic
Melting point/freezing point	-187.6 °C at 1,013 hPa calculated value, referring to a component of the mixture
Boiling point or initial boiling point and boiling range	-44.5 °C
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	LEL: 0.6 vol% / UEL: 10.9 vol% calculated value, referring to a component of the mixture



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Flash point	-97 °C at 1,013 hPa (fluid) calculated value
Auto-ignition temperature	>200 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	no data available
pH (value)	it is not technically possible to generate the data: aprotic
Kinematic viscosity	24 mm <sup>2</sup> /s at 40 °C
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	8,300 hPa at 20 °C
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### Density and/or relative density

Density	0.69 g/cm <sup>3</sup> at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (aerosol)
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## 9.2 Other information

There is no additional information.

### Information with regard to physical hazard classes

#### Aerosols

- components (flammable)	98.25 %
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#### Other safety characteristics

Propellant content	43.61 %
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.



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Hints to prevent fire or explosion

Protect from sunlight.

### 10.5 Incompatible materials

Oxidisers.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

- acute toxicity of components of the mixture

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		inhalation: vapour	>9.3 mg/l/4h

Acute toxicity of components of the mixture				
Name of substance	Exposure route	Endpoint	Value	Species
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	inhalation: vapour	LC50	>23.3 mg/l/4h	rat
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	LD50	>2,800 – 3,100 mg/kg	rat
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	oral	LD50	>5,000 mg/kg	rat
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	inhalation: vapour	LC50	>9,300 mg/m <sup>3</sup> /4h	rat
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	dermal	LD50	>2,000 mg/kg	rat
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	inhalation: dust/mist	LC50	≥6,100 mg/m <sup>3</sup> /4h	rat
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	oral	LD50	>5,000 mg/kg	rat
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	dermal	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.



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### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		LL50	10 mg/l	fish	96 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EL50	22 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EC50	0.64 mg/l	aquatic invertebrates	48 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOELR	3 mg/l	algae	24 h
Butane	106-97-8	LC50	49.9 mg/l	fish	96 h
Butane	106-97-8	EC50	19.37 mg/l	algae	96 h
Propane	74-98-6	LC50	49.9 mg/l	fish	96 h
Propane	74-98-6	EC50	19.37 mg/l	algae	96 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		LL50	>1,000 mg/l	fish	24 h



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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		EL50	>1,000 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		LC50	>0.004 mg/l	aquatic invertebrates	96 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		EC50	>0.004 mg/l	aquatic invertebrates	48 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		NOELR	1,000 mg/l	aquatic invertebrates	96 h
Isobutane (with < 0,1 % butadiene)	75-28-5	LC50	49.9 mg/l	fish	96 h
Isobutane (with < 0,1 % butadiene)	75-28-5	EC50	19.37 mg/l	algae	96 h
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		LL50	>1,000 mg/l	fish	24 h
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		EL50	>1,000 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		NOELR	32 mg/l	aquatic invertebrates	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EL50	1.6 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EC50	0.23 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOELR	0.574 mg/l	fish	28 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOEC	0.17 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		LOEC	0.32 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		LL50	>100 mg/l	fish	3 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		NOELR	0.131 mg/l	fish	28 d
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		growth (EbCx) 10%	>1,000 mg/l	microorganisms	3 h
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		EL50	>1,000 mg/l	aquatic invertebrates	24 h



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### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		LL50	>100 mg/l	fish	3 h
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		NOELR	>10.2 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		growth (EbCx) 10%	>1,000 mg/l	microorganisms	3 h

### 12.2 Persistence and degradability

#### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		oxygen depletion	83 %	16 d	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		oxygen depletion	10 %	5 d	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		carbon dioxide generation	78 %	28 d	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		carbon dioxide generation	0 %	3 d	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		oxygen depletion	31.3 %	28 d	

### 12.3 Bioaccumulative potential

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Butane	106-97-8		1.09 (pH value: 7, 20 °C)	
Propane	74-98-6		2.31 (pH value: 7, 20 °C)	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		≥30.85 – ≤2,626	≥3.17 – ≤6.23 (pH value: ~7, 20 °C)	
Isobutane (with < 0,1 % butadiene)	75-28-5		1.09 (pH value: 7, 20 °C)	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		≥44.6 – ≤5,362	≥3.17 – ≤7.22	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB ≥ 0.1%.



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### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

### 14.2 UN proper shipping name

ADR/RID	AEROSOLS flammable
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

### 14.3 Transport hazard class(es)

ADR/RID	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1

### 14.4 Packing group

not assigned

### 14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

No data available.

### Information for each of the UN Model Regulations



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### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

Classification code 5F  
Danger label(s) 2.1, fish and tree



Environmental hazards yes (hazardous to the aquatic environment)  
Special provisions (SP) 190, 327, 344, 625  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
Transport category (TC) 2  
Tunnel restriction code (TRC) D

### Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

Classification code 5F  
Danger label(s) 2.1, fish and tree



Environmental hazards yes (hazardous to water)  
Special provisions (SP) 190, 327, 344, 625  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
Transport category (TC) 2  
Hazard identification No 23

### International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant yes (hazardous to the aquatic environment)  
Danger label(s) 2.1, fish and tree



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
EmS F-D, S-U  
Stowage category -

### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards yes (hazardous to the aquatic environment)  
Danger label(s) 2.1





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Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

##### Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
P3a	flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1)	150 500	46)

##### Notation

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1  
Note: qualifying quantity = net

##### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

##### Water Framework Directive (WFD)

None of the ingredients are listed.

##### Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

##### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

##### National regulations (GB)

##### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

##### Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Butane	flammable / pyrophoric	R40	40
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	flammable / pyrophoric	R40	40



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Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	flammable / pyrophoric	R40	40

### Legend

R3

- Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and,
  - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
    - or even sucking the wick of lamps
    - may lead to life-threatening lung damage';
  - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
  - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

R40

- Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
  - metallic glitter intended mainly for decoration,
  - artificial snow and frost,
  - 'whoopie' cushions,
  - silly string aerosols,
  - imitation excrement,
  - horns for parties,
  - decorative flakes and foams,
  - artificial cobwebs,
  - stink bombs.
- Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
'For professional users only'.
- By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (\*\*\*).
- The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.  
(\*\*\*) OJ L 147, 9.6.1975, p. 40.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.



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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code



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Abbr.	Descriptions of used abbreviations
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.