

## Safety Data Sheet

according to UK REACH Regulation

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Revision date: 06.03.2023

VMM 4

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

#### 1.1. Product identifier

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

##### Use of the substance/mixture

Aerosol

##### Uses advised against

Any non-intended use.

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

Company name:	Meusburger Georg GmbH & Co KG	
Street:	Kesselstrasse 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusburger.com	
Internet:	www.meusburger.com	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de

#### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

#### Further Information

Safety Data Sheet according to UK-REACH Regulation

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Aerosol 1; H222-H229  
Asp. Tox. 1; H304  
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)  
Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic

Signal word: Danger

Pictograms:



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### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.

### Precautionary statements

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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.

### Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH. This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity
EC No	GHS Classification	
REACH No		
Index No		
74-98-6	propane	50 - 75 %
200-827-9	Flam. Gas 1, Compressed gas; H220 H280	
01-2119486944-21		
601-003-00-5		
	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)	25 - 50 %
919-857-5	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066	
01-2119463258-33		
64742-65-0	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic	10 - 25 %

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265-169-7	Asp. Tox. 1; H304	
106-97-8	butane	10 - 25 %
203-448-7	Flam. Gas 1, Liquefied gas; H220 H280	
01-2119474691-32		
601-004-00-0		
95-63-6	1,2,4-trimethylbenzene	< 1 %
202-436-9	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 2; H226 H332 H315 H319 H335 H411	
01-2119472135-42		
601-043-00-3		

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
74-98-6	200-827-9	propane	50 - 75 %
		inhalation: LC50 = 800000 ppm (gases)	
	919-857-5	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)	25 - 50 %
		oral: LD50 = >5000 mg/kg	
64742-65-0	265-169-7	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic	10 - 25 %
		inhalation: LC50 = >5,53 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
95-63-6	202-436-9	1,2,4-trimethylbenzene	< 1 %
		inhalation: LC50 = 18 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 3160 mg/kg; oral: LD50 = >5000 mg/kg	

### Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

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### After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Call a physician immediately.

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

After eye contact: Causes eye irritation. Conjunctival redness.

Following inhalation: Irritation to respiratory tract. Coughing. Nausea. Vomiting. Headache. May cause drowsiness or dizziness. Dizziness. Unconsciousness.

Following skin contact: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

Danger of bursting container.

Vapours may form explosive mixtures with air.

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

#### General advice

Ventilate affected area. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

#### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

#### For emergency responders

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

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### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.  
Wear suitable protective clothing. (See section 8.)

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product.  
When using do not eat, drink or smoke.  
Wash hands before breaks and after work.  
Contaminated work clothing should not be allowed out of the workplace.

#### Further information on handling

General protection and hygiene measures: refer to chapter 8

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.  
Provide adequate ventilation.

#### Hints on joint storage

Do not store together with: Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances.  
Infectious substances.

#### Further information on storage conditions

Recommended storage temperature: 10 - 30 °C. Do not store at temperatures over: 50 °C  
Note: Storage requirements for flammable aerosols.

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
95-63-6	Trimethylbenzenes: 1,2,4-Trimethylbenzene	25	125		TWA (8 h)	WEL

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)			
	Worker DNEL, long-term	inhalation	systemic	1500 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	900 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	300 mg/kg bw/day
95-63-6	1,2,4-trimethylbenzene			
	Worker DNEL, long-term	inhalation	systemic	100 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	100 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	100 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	100 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	16171 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	29,4 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	29,4 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	29,4 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	29,4 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	9512 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	15 mg/kg bw/day

### PNEC values

CAS No	Substance	Value
	Environmental compartment	
95-63-6	1,2,4-trimethylbenzene	
	Freshwater	0,12 mg/l
	Freshwater (intermittent releases)	0,12 mg/l
	Marine water	0,12 mg/l
	Freshwater sediment	13,56 mg/kg
	Marine sediment	13,56 mg/kg
	Micro-organisms in sewage treatment plants (STP)	2,41 mg/l
	Soil	2,34 mg/kg

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### 8.2. Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

##### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

##### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

Butyl rubber. (0,5 mm)

Breakthrough time >480 min

Penetration time (maximum wearing period): 240 - 480 min

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Skin protection

Protective clothing, antistatic (DIN EN 1149)

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Type AX

Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Thermal hazards

No special precautionary measures are necessary.

##### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	amber	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined

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Flammability:	not determined
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	10,9 vol. %
Flash point:	not relevant
Auto-ignition temperature:	270 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not applicable
Water solubility:	insoluble
Solubility in other solvents	
not determined	
Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not determined
Dispersion stability:	not relevant
Vapour pressure:	2100 hPa
(at 20 °C)	
Density (at 20 °C):	0,715 g/cm <sup>3</sup>
Bulk density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

##### Sustaining combustion:

No data available

##### Self-ignition temperature

Solid:

not relevant

Gas:

not determined

##### Oxidizing properties

none

#### Other safety characteristics

##### Evaporation rate:

not determined

##### Solvent separation test:

not determined

##### Solvent content:

not determined

##### Solid content:

not determined

##### Sublimation point:

not determined

##### Softening point:

not determined

##### Pour point:

not determined

##### Viscosity / dynamic:

not determined

##### Flow time:

not determined

#### Further Information

Chemical heat of combustion in kJ/g: 31,52

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability



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The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.  
Refer to chapter 10.5.

### **10.4. Conditions to avoid**

Keep away from heat.  
Ignition hazard.  
Heating causes rise in pressure with risk of bursting.

### **10.5. Incompatible materials**

Oxidizing agents, strong.

### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

### **Further information**

In use, may form flammable/explosive vapour-air mixture.

## SECTION 11: Toxicological information

### **11.1. Information on hazard classes as defined in GB CLP Regulation**

#### **Toxicokinetics, metabolism and distribution**

No information available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (inhalation vapour) 909,09 mg/l; ATE (inhalation dust/mist) 75,758 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
74-98-6	propane				
	inhalation gas	LC50 ppm	800000	Rat	ECHA dossier 15 min
	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)				
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier READ ACROSS
64742-65-0	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic				
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA dossier
	inhalation (4 h) dust/mist	LC50 mg/l	>5,53	Rat	ECHA dossier
95-63-6	1,2,4-trimethylbenzene				
	oral	LD50 mg/kg	>5000	Rat	ECHA dossier
	dermal	LD50 mg/kg	> 3160	Rabbit	ECHA dossier
	inhalation (4 h) vapour	LC50	18 mg/l	Rat	RTECS

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	inhalation dust/mist	ATE	1,5 mg/l		
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### Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

propane:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative.

Literature information: ECHA dossier

Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Species: Rat Exposure duration: 6 w. Results: NOAEC = 12000 ppm.

Literature information: ECHA dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) Species: Rat Results: NOAEC = 12000 ppm.

Literature information: ECHA dossier

Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic:

In vitro mutagenicity/genotoxicity:

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

-OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Result: negative.

Literature information: ECHA dossier

1,2,4-trimethylbenzene:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.

Literature information: ECHA dossier

Reproductive toxicity Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat.; Exposure duration 2 weeks.

Result: NOAEC 500 ppm. Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rat; Exposure duration: 15 d. Result: NOAEC = 1470 mg/kg

Literature information: ECHA dossier

### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %))

### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

propane:

Subacute inhalative toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) Species: Rat Exposure duration: 6 w. Result: NOAEC = 94000 ppm ( 7214 mg/m<sup>3</sup>)

Literature information: ECHA dossier

Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Subacute inhalative toxicity:

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Method: -

Exposure time: 28d

Species: Rat

Results: > 980 mg/m<sup>3</sup>

Literature information: J Appl Toxicol, Vol 11(4), pp 297-302

Subacute dermal toxicity:

Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Exposure time: 28d

Species: Rabbit

Results: 1000 mg/kg

Literature information: ECHA dossier

1,2,4-trimethylbenzene:

Chronic inhalation toxicity: Method: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day); Species:

Rat; Exposure duration: 99 d. Results: NOAEL = 1230 mg/kg

Literature information: ECHA dossier

### Aspiration hazard

May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %):

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Asp. Tox. 1: May be fatal if swallowed and enters airways.

### Specific effects in experiment on an animal

No information available.

## 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
74-98-6	propane					
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish	ECHA dossier
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	ECHA dossier
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia magna	ECHA dossier
	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)					

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	Acute fish toxicity	LC50 >1000 mg/l	LL50:	96 h	Oncorhynchus mykiss	ECHA dossier	
	Acute algae toxicity	ErC50 >1000 mg/l	ELr50:	72 h	Pseudokirchnerella subcapitata	ECHA dossier	
	Acute crustacea toxicity	EC50 >1000 mg/l	EL50:	48 h	Daphnia magna	ECHA dossier	
64742-65-0	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic						
	Acute fish toxicity	LC50 >100 mg/l	LL50:	96 h	Pimephales promelas	ECHA dossier	OECD 203
	Acute crustacea toxicity	EC50 >10000 mg/l	LL50:	48 h	Daphnia magna	ECHA dossier	OECD 202
106-97-8	butane						
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	ECHA dossier	
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	ECHA dossier	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	ECHA dossier	Calculation using ECOSAR Program v1.00.
95-63-6	1,2,4-trimethylbenzene						
	Acute fish toxicity	LC50 mg/l	7,72	96 h	Pimephales promelas	ECHA dossier	
	Acute algae toxicity	ErC50 mg/l	2,356	96 h	Green algae	ECHA dossier	ECOSAR class program
	Acute crustacea toxicity	EC50	3,6 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
	Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)				
		OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	80%	28	ECHA dossier
	Readily biodegradable (according to OECD criteria).				
95-63-6	1,2,4-trimethylbenzene				
		WoE	< 60%	28	ECHA dossier
	Not easily bio-degradable (according to OECD-criteria).				

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36
106-97-8	butane	1,09
95-63-6	1,2,4-trimethylbenzene	3,63

#### BCF

CAS No	Chemical name	BCF	Species	Source
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95-63-6	1,2,4-trimethylbenzene	243	Pimephales promelas	J. Fish. Board Can.
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### **12.4. Mobility in soil**

No information available.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### **12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

#### **List of Wastes Code - residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### **List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### **List of Wastes Code - contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

#### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

<b><u>14.1. UN number or ID number:</u></b>	UN 1950
<b><u>14.2. UN proper shipping name:</u></b>	AEROSOLS
<b><u>14.3. Transport hazard class(es):</u></b>	2
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	2.1

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Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

### Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Marine pollutant:	NO
Special Provisions:	63, 190, 277, 327, 344, 381, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, FLAMMABLE
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Special Provisions:	A145 A167 A802
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Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y203	
Excepted quantity:	E0	
IATA-packing instructions - Passenger:		203
IATA-max. quantity - Passenger:		75 kg
IATA-packing instructions - Cargo:		203
IATA-max. quantity - Cargo:		150 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Refer to section 6 - 8

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

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

2010/75/EU (VOC):	67,11 % (480 g/l)
2004/42/EC (VOC):	67,11 % (480 g/l)
Information according to 2012/18/EU (SEVESO III):	P3a FLAMMABLE AEROSOLS

#### Additional information

Safety Data Sheet according to UK-REACH Regulation  
 UK Aerosols Regulation  
 UK REACH Appendix XVII, No (mixture): 3, 40  
 The mixture is classified as hazardous according to GHS (GB CLP).

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
 Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

propane  
 Hydrocarbons, C9-C11, n-alkane, iso-alkane, cyclic compounds, aromatics (< 2 %)  
 butane  
 1,2,4-trimethylbenzene

## SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release: 14.05.2018  
 Rev. 2,0; 20.02.2020; Changes in chapter: 2-16.  
 Rev. 3,0; 06.03.2023; Changes in chapter: 1-16.

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### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling, Packaging

DNEL: Derived No Effect Level

d: day(s)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

ECOSAR: Ecological Structure Activity Relationships

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IUCLID: International Uniform Chemical Information Database

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

OECD: Organisation for Economic Co-operation and Development

PNEC: Predicted No Effect Concentration

PBT: Persistent, bio-cumulative, toxic

QSAR: Quantitative Structure-Activity Relationship

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SVHC: Substance of Very High Concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials

vPvB: very persistent and very bio-cumulative

VOC: Volatile Organic Compounds

w: week(s)

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
STOT SE 3; H336	Bridging principle "Aerosols"

### Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.



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H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*