

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

**1.1 Product identifier**

**MC1 Brake Cleaner**  
**Article number: 2897333500**

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

**1.2.1 Relevant uses**

Cleaning agent

**1.2.2 Uses advised against**

None known.

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

**Company**

Normfest GmbH  
Siemensstraße 23  
42551 Velbert / GERMANY  
Phone +49 2051 275-0  
Fax +49 2051 275-141  
Homepage [www.normfest.com](http://www.normfest.com)  
E-mail [info@normfest.de](mailto:info@normfest.de)

**Address enquiries to**

**Technical information**

[info@normfest.de](mailto:info@normfest.de)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

**1.4 Emergency telephone number**

**Advisory body**

Call NHS 111 or a doctor

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

Skin Irrit. 2: H315 Causes skin irritation.

STOT SE 3: H336 May cause drowsiness or dizziness.

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

## 2.2 Label elements

The determination of properties hazardous to health does not take the propellant or carrier material into account.

The product is required to be labelled in accordance with regulation CLP.

### Hazard pictograms



### Signal word

DANGER

### Contains:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

### 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.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.  
P260 Do not breathe mist / vapours / spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P312 Call a POISON CENTER / doctor if you feel unwell.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulation.

### Cleaner, 648/2004/CE, contains:

>=30% aliphatic hydrocarbons

## 2.3 Other hazards

### Environmental hazards

Does not contain any PBT or vPvB substances.

### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - <50	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
	EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
30 - <50	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
	CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
1 - <10	Butane
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
1 - <5	Carbon dioxide (EU occupational exposure limit value)
	CAS: 124-38-9, EINECS/ELINCS: 204-696-9
	GHS/CLP: Press. Gas: H280
1 - <5	Propane
	CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change soaked clothing.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

#### Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

#### Ingestion

Do not induce vomiting.  
In the event of symptoms seek medical treatment.

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

Headache  
Drowsiness  
Irritant effects

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide.  
Water spray jet.  
Dry powder.  
Foam.

#### Extinguishing media that must not be used

Full water jet.

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

Risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons  
Bursting aerosols can be forcibly projected from a fire.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Cool containers at risk with water spray jet.

## SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

High risk of slipping due to leakage/spillage of product.

### 6.2 Environmental precautions

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

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

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use solvent-resistant equipment.

Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.

Vapours can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

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

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Protect from heat/overheating and from sun.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection**
**8.1 Control parameters**
**Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
Carbon dioxide (EU occupational exposure limit value)
CAS: 124-38-9, EINECS/ELINCS: 204-696-9
Long-term exposure: 5000 ppm, 9150 mg/m <sup>3</sup>
Short-term exposure (15-minute): 15000 ppm, 27400 mg/m <sup>3</sup>
Butane
CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
Long-term exposure: 600 ppm, 1450 mg/m <sup>3</sup>
Short-term exposure (15-minute): 750 ppm, 1810 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored (EU)**

Substance / EC LIMIT VALUES
Carbon dioxide (EU occupational exposure limit value)
CAS: 124-38-9, EINECS/ELINCS: 204-696-9
Eight hours: 5000 ppm, 9000 mg/m <sup>3</sup>

**DNEL**

Substance
Butane, CAS: 106-97-8
There are no DNEL values established for the substance.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Industrial, inhalative, Long-term - systemic effects, 2085 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
general population, oral, Long-term - systemic effects, 149 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 477 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 149 mg/kg bw/d
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, inhalative, Long-term - systemic effects, 2035 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day
general population, oral, Long-term - systemic effects, 699 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 608 mg/m <sup>3</sup>

**PNEC**

Substance
Butane, CAS: 106-97-8

There are no PNEC values established for the substance.
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Propane, CAS: 74-98-6
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There are no PNEC values established for the substance.
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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
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There are no PNEC values established for the substance.
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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	>0.45 mm Nitrile rubber, >240 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter AX (DIN EN 14387).
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	See SECTION 6+7.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	aerosol
Color	colourless
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	500 (20°C)
Density [g/cm <sup>3</sup> ]	0.68987
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature	>200
Decomposition temperature [°C]	not applicable
Particle characteristics	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with oxidizing agents.

Because of the high vapour pressure, containers are liable to burst if temperature rises.

### 10.4 Conditions to avoid

Strong heating.



#### 10.5 Incompatible materials

Strong oxidizing agent.

#### 10.6 Hazardous decomposition products

Flammable gases/vapours.



**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity** Based on available data, the classification criteria are not met.

Product
ATE-mix, oral, >2000 mg/kg bw
Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
LD50, oral, Rat, > 3000 mg/kg bw
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, oral, Rat, > 5840 mg/kg

**Acute dermal toxicity** Based on available data, the classification criteria are not met.

Product
ATE-mix, dermal, >2000 mg/kg bw
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rat, > 2920 mg/kg

**Acute inhalational toxicity** Based on available data, the classification criteria are not met.

Product
ATE-mix, inhalativ (mist), >20 mg/L
Substance
Butane, CAS: 106-97-8
LC50, inhalative, Rat, 658 mg/L (IUCLID)
Carbon dioxide (EU occupational exposure limit value), CAS: 124-38-9
LC0, inhalative, Human, 90000 ppm IUCLID
Propane, CAS: 74-98-6
LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, > 25.2 mg/l (4 h)

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

Substance
Butane, CAS: 106-97-8
Eye, non-irritating
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Eye, Rabbit, In vivo study, non-irritating
Propane, CAS: 74-98-6
Eye, non-irritating
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Eye, in vivo, non-irritating

**Skin corrosion/irritation** Irritant

Substance
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Butane, CAS: 106-97-8
dermal, non-irritating
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
dermal, Rabbit, OECD 404, irritant
Propane, CAS: 74-98-6
dermal, non-irritating
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
dermal, in vivo, irritant

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Substance
Butane, CAS: 106-97-8
inhalative, non-sensitizing
dermal, non-sensitizing
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Propane, CAS: 74-98-6
inhalative, non-sensitizing
dermal, non-sensitizing
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
dermal, in vivo, non-sensitizing

**Specific target organ toxicity — single exposure** Vapours may cause drowsiness and dizziness.

Substance
Butane, CAS: 106-97-8
inhalative, non-irritating
Propane, CAS: 74-98-6
inhalative, non-irritating
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
inhalative, adverse effect observed

**Specific target organ toxicity — repeated exposure** Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
NOAEC, inhalative, Rat, 12470 mg/m <sup>3</sup> , Study, negativ
Propane, CAS: 74-98-6
NOAEC, inhalative, Rat, 4437 mg/m <sup>3</sup>

**Mutagenicity** Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
in vivo, negativ

**Reproduction toxicity** Does not contain a relevant substance that meets the classification criteria.

**- Fertility**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, (systemic): 8117 mg/m <sup>3</sup> , The effects observed are not sufficient for classification.

**- Development**

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
NOAEC, inhalative, Rat, 31680 mg/m <sup>3</sup> , In vivo study, negativ
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, (systemic): 8117 mg/m <sup>3</sup> , The effects observed are not sufficient for classification.

**Carcinogenicity**

Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
No information available.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
no adverse effect observed

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**General remarks**

Toxicological data of complete product are not available.  
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

**11.2 Information on other hazards****Endocrine disrupting properties**

Does not contain a relevant substance that meets the classification criteria.

**Other information****SECTION 12: Ecological information****12.1 Toxicity**

Substance
Butane, CAS: 106-97-8
LC50, (48h), Invertebrates, 14.22 - 69.43 mg/L
Carbon dioxide (EU occupational exposure limit value), CAS: 124-38-9
LC0, (96h), Rainbow trout, 35 mg/L (IUCLID)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
EC50, (72h), Pseudokirchneriella subcapitata, 10 - 30 mg/l
EC50, (48h), Daphnia magna, 3 mg/l
NOEC, (21d), Daphnia magna, 0.17 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, 10 mg/l
LL50, (96h), Oncorhynchus mykiss, > 13.4 mg/l
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, (96h), Oncorhynchus mykiss, 11.4 mg/L
EC50, (48h), Daphnia magna, 3 mg/L
NOELR, (21d), Daphnia magna, 1 mg/L
NOELR, (28d), Oncorhynchus mykiss, 2.045 mg/L

## 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	AOX-advice: No dangerous components. Contains no organic complexing agents.
<b>Biological degradability</b>	not determined

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

## 12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Dispose of as hazardous waste.

#### Waste no. (recommended)

160504\* gases in pressure containers (including halons) containing dangerous substances

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances  
150104

## SECTION 14: Transport information

### 14.1 UN number or ID number






**Transport by land according to ADR/RID** 1950

**Inland navigation (ADN)** 1950

**Marine transport in accordance with IMDG** 1950

**Air transport in accordance with IATA** 1950

**14.2 UN proper shipping name**

<b>Transport by land according to ADR/RID</b>	Aerosols
- Classification Code	5F
- Label	
- ADR LQ	1 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
<b>Inland navigation (ADN)</b>	Aerosols
- Classification Code	5F
- Label	
<b>Marine transport in accordance with IMDG</b>	Aerosols (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)
- EMS	F-D, S-U
- Label	 
- IMDG LQ	1 l
<b>Air transport in accordance with IATA</b>	Aerosols, flammable
- Label	

**14.3 Transport hazard class(es)**

<b>Transport by land according to ADR/RID</b>	2
<b>Inland navigation (ADN)</b>	2
<b>Marine transport in accordance with IMDG</b>	2.1
<b>Air transport in accordance with IATA</b>	2.1

**14.4 Packing group**

<b>Transport by land according to ADR/RID</b>	not applicable
<b>Inland navigation (ADN)</b>	not applicable
<b>Marine transport in accordance with IMDG</b>	not applicable
<b>Air transport in accordance with IATA</b>	not applicable

**14.5 Environmental hazards**

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 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**

<b>EEC-REGULATIONS</b>	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	96,6 % 665,9 g/l

**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****16.1 Hazard statements (SECTION 3)**

H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.  
H411 Toxic to aquatic life with long lasting effects.  
H336 May cause drowsiness or dizziness.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H225 Highly flammable liquid and vapour.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@TWA = Threshold limit value – time-weighted average  
 TLV@STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229  
 Pressurised container: May burst if heated. (Bridging principle "Aerosols")  
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)  
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)  
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)  
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

**Modified position**

SECTION 3 been added: Butane

SECTION 3 been added: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

SECTION 3 deleted: Butane

SECTION 3 deleted: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

SECTION 9 been added: not applicable

SECTION 9 been added: liquid

SECTION 9 deleted: aerosol

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 12 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 12 deleted: No information available.

SECTION 16 deleted:

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