

# Safety data sheets Ferney Group BV

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

### 1.1. Product identifier

|                |                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Productname    | <b>Kelfort ® Power cleaner</b>                                                                                                                                                     |
| Article number | 1516715                                                                                                                                                                            |
| Producttype    | Mixture                                                                                                                                                                            |
| Regulation     | Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008<br>This SDS is for generic information purposes and does not reflect required country specific information for OEL |

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

|                      |                            |
|----------------------|----------------------------|
| Recommended use      | Surface cleaning Detergent |
| Uses advised against | None known.                |

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

**Distributeur** Ferney Group BV  
Postbus 24  
1700 AA Heerhugowaard – The Netherlands  
T +31 (0)72-5765000 - F +31 (0)72-5765010  
[bedrijfsbureau@ferneygroup.nl](mailto:bedrijfsbureau@ferneygroup.nl) - [www.ferney.nl](http://www.ferney.nl)

### 1.4 Emergency telephone number

Noodtelefoon : +49(0)9366-907126 (ma-do 7.15-18.00 hour) or  
: +31(0)88-7558000 (after worktime, exclusive use for doctors, pharmacists and government institutions)

| Country         | Organisation/<br>Company            | Address                                                    | Emergency<br>number | Comments                                                                                   |
|-----------------|-------------------------------------|------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------|
| The Netherlands | National Poisons Information Center | House post number B.00.118 PO Box 85500<br>3508 GA Utrecht | +31 88 755 80 00    | For the sole purpose of informing healthcare professionals in the event of acute poisoning |

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                                    |                           |
|----------------------------------------------------|---------------------------|
| Aerosols                                           | Category 1 - (H222, H229) |
| Skin irritation                                    | Category 2 - (H315)       |
| Eye irritation                                     | Category 2 - (H319)       |
| Specific target organ toxicity (single exposure)   | Category 3 - (H336)       |
| Category 3 Target organ effects: Narcotic effects. |                           |
| Aspiration hazard                                  | Category 1 - (H304)       |
| Hazardous to the aquatic environment - chronic     | Category 2 - (H411)       |

### 2.2. Label elements

Contains Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Acetone



#### Signal word

Danger

#### Hazard statements

H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary Statements - EU (§28, 1272/2008)

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  
P261 - Avoid breathing vapours/spray  
P264 - Wash skin thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves, eye protection and face protection  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P312 - Call a POISON CENTER or doctor if you feel unwell  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P391 - Collect spillage  
P405 - Store locked up  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product is exempt from the requirement for a child resistant fastening and tactile warning of danger, as it is an aspiration hazard, placed on the market in the form of an aerosol or in a container with a sealed spray attachment.

## 2.3. Other hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

## PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name                                                | Weight-% | REACH registration number | EC No (EU Index No)      | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                   | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|--------------------------------------------------------------|----------|---------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|-------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics RR-100219-3 | 40 - <80 | 01-2119475515-33-xxxx     | 927-510-4                | STOT SE 3 (H336)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Aquatic Chronic 2 (H411)<br>Flam. Liq. 2 (H225) | -                                  | -        | -                    | -     |
| Acetone 67-64-1                                              | 10 - <20 | 01-2119471330-49-XXXX     | 200-662-2 (606-001-00-8) | Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)<br>(EUH066)                                        | -                                  | -        | -                    | -     |
| Carbon dioxide 124-38-9                                      | 1 - <5   | [4]                       | 204-696-9                | Press. Gas (H281)                                                                                                 | -                                  | -        | -                    | -     |
| Butane 106-97-8                                              | 1 - <5   | 01-2119474691-32-XXXX     | 203-448-7 (601-004-00-0) | Flam. Gas 1 (H220)<br>Press. Gas (H280)                                                                           | -                                  | -        | -                    | C,U   |
| Isobutane 75-28-5                                            | 1 - <2.5 | 01-2119485395-27-XXXX     | 200-857-2 (601-004-00-0) | Flam. Gas 1 (H220)<br>Press. Gas (H280)                                                                           | -                                  | -        | -                    | C,U   |

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

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Note 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.

Note 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. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

**Full text of H- and EUH-phrases: see section 16**

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name                                    | EC No (EU Index No)         | CAS No.     | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------------------------|-----------------------------|-------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4                   | RR-100219-3 | -               | -                 | -                                           | -                                        | -                                    |
| Acetone                                          | 200-662-2<br>(606-001-00-8) | 67-64-1     | 5800            | -                 | -                                           | -                                        | -                                    |
| Carbon dioxide                                   | 204-696-9                   | 124-38-9    | -               | -                 | -                                           | -                                        | -                                    |
| Butane                                           | 203-448-7<br>(601-004-00-0) | 106-97-8    | -               | -                 | -                                           | -                                        | -                                    |
| Isobutane                                        | 200-857-2<br>(601-004-00-0) | 75-28-5     | -               | -                 | -                                           | -                                        | -                                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

### **4.1. Description of first aid measures**

#### **General advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### **Inhalation**

Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

#### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

#### **Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

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## Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

## Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

### Symptoms

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

### Effects of Exposure

No information available.

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

### Note to doctors

Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray.

#### Unsuitable extinguishing media

Full water jet.

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

#### Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated.

#### Hazardous combustion products

Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

#### Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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## SECTION 6: Accidental release measures

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Flood with water to complete polymerization and scrape off floor.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

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

### Storage Conditions

Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children. Store away from other materials. Keep/store only in original container. Store in a dry place. Store in a closed container.

## 7.3. Specific end use(s)

### Specific use(s)

Detergent. Surface cleaning.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

| Chemical name              | European Union                               |
|----------------------------|----------------------------------------------|
| Acetone<br>67-64-1         | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>  |
| Carbon dioxide<br>124-38-9 | TWA: 5000 ppm<br>TWA: 9000 mg/m <sup>3</sup> |

**Derived No Effect Level (DNEL)** No information available

| Derived No Effect Level (DNEL)                                 |                |                                |               |
|----------------------------------------------------------------|----------------|--------------------------------|---------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3) |                |                                |               |
| Type                                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects                 | Inhalation     | 2085 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Systemic health effects                 | Dermal         | 300 mg/kg bw/d                 |               |

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| Acetone (67-64-1)                              |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Long term<br>Systemic health effects<br>worker | Dermal         | 186 mg/kg bw/d                 |               |
| Short term<br>Local health effects<br>worker   | Inhalation     | 2420 mg/m³                     |               |
| Long term                                      | Inhalation     | 1210 mg/m³                     |               |
| Systemic health effects<br>worker              |                |                                |               |

| Derived No Effect Level (DNEL)                                 |                |                                |               |
|----------------------------------------------------------------|----------------|--------------------------------|---------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3) |                |                                |               |
| Type                                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects               | Inhalation     | 447 mg/m³                      |               |
| Consumer<br>Long term<br>Systemic health effects               | Dermal         | 149 mg/kg bw/d                 |               |
| Consumer<br>Long term<br>Systemic health effects               | Oral           | 149 mg/kg bw/d                 |               |

| Acetone (67-64-1)                                |                |                                |               |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                             | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 200 mg/m³                      |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 62 mg/kg bw/d                  |               |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 62 mg/kg bw/d                  |               |

## Predicted No Effect Concentration (PNEC)

| Predicted No Effect Concentration (PNEC) |                                          |
|------------------------------------------|------------------------------------------|
| Acetone (67-64-1)                        |                                          |
| Environmental compartment                | Predicted No Effect Concentration (PNEC) |
| Freshwater                               | 10.6 mg/l                                |
| Freshwater - intermittent                | 21 mg/l                                  |
| Marine water                             | 1.06 mg/l                                |
| Microorganisms in sewage treatment       | 100 mg/l                                 |
| Freshwater sediment                      | 30.4 mg/kg dry weight                    |
| Marine water                             | 3.04 mg/kg dry weight                    |
| Soil                                     | 29.5 mg/kg dry weight                    |

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## 8.2. Exposure controls

|                                 |                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering controls            | Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.                                                                                                                                                                                                                                            |
| Personal protective equipment   |                                                                                                                                                                                                                                                                                                                                                                           |
| Eye/face protection             | Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.                                                                                                                                                                                                                                                                       |
| Hand protection                 | Wear suitable gloves. Glove thickness > 0.7mm. Butyl rubber. Nitrile rubber. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374 |
| Skin and body protection        | Wear appropriate personal protective clothing to prevent skin contact.                                                                                                                                                                                                                                                                                                    |
| Respiratory protection          | In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.                                                                                                                                                                                                                            |
| Recommended filter type:        | Organic gases and vapours filter conforming to EN 14387.                                                                                                                                                                                                                                                                                                                  |
| Environmental exposure controls | No information available.                                                                                                                                                                                                                                                                                                                                                 |

## SECTION 9: Physical and chemical properties

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

|                                         |                          |                                     |
|-----------------------------------------|--------------------------|-------------------------------------|
| Physical state                          | Liquid                   |                                     |
| Appearance                              | Aerosol                  |                                     |
| Colour                                  | Colourless               |                                     |
| Odour                                   | Petroleum.               |                                     |
| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u>             |
| Melting point / freezing point          | No data available        | None known                          |
| Initial boiling point and boiling range | Not applicable, Aerosol  | Not applicable, Aerosol             |
| Flammability                            | No data available        | None known                          |
| Flammability Limit in Air               |                          | None known                          |
| Upper flammability or explosive limits  | No data available        |                                     |
| Lower flammability or explosive limits  | No data available        |                                     |
| Flash point                             | Not applicable, Aerosol  | Not applicable, Aerosol             |
| Autoignition temperature                | >200 °C                  | None known                          |
| Decomposition temperature               |                          | None known                          |
| pH                                      | No data available        | Not applicable. Insoluble in water. |
| pH (as aqueous solution)                | No data available        | None known                          |
| Kinematic viscosity                     | No data available        | None known                          |
| Dynamic viscosity                       | No data available        |                                     |
| Water solubility                        | Insoluble in water.      | None known                          |
| Solubility(ies)                         | No data available        | None known                          |
| Partition coefficient                   | No data available        | None known                          |
| Vapour pressure                         | No data available        | None known                          |
| Relative density                        | No data available        | None known                          |
| Bulk density                            | No data available        |                                     |
| Density                                 | 0.65 - 0.75 g/cm³        |                                     |
| Relative vapour density                 | No data available        | None known                          |
| Particle characteristics                |                          |                                     |
| Particle Size                           | No information available |                                     |
| Particle Size Distribution              | No information available |                                     |

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## 9.2. Other information

Solid content (%)

0

VOC content

approx 682.0 g/L

### 9.2.1. Information with regards to physical hazard classes

Not applicable

### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity

No information available.

### 10.2. Chemical stability

Stability

Stable under normal conditions.

### Explosion data

Sensitivity to mechanical  
impact

None.

Sensitivity to static discharge

Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Conditions to avoid

Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Incompatible materials

Strong acids. Strong bases. Strong oxidising agents. Incompatible with oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition  
products

None under normal use conditions. Stable under recommended storage conditions.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

#### Product Information

Inhalation

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

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|                     |                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.                                                                                                                                               |
| <b>Skin contact</b> | Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                                                                          |
| <b>Ingestion</b>    | Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## Acute toxicity

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                               |             |
|-------------------------------|-------------|
| ATEmix (oral)                 | >2000 mg/kg |
| ATEmix (dermal)               | >2000 mg/kg |
| ATEmix (inhalation-gas)       | >20000 ppm  |
| ATEmix (inhalation-dust/mist) | >5 mg/l     |
| ATEmix (inhalation-vapour)    | >20 mg/l    |

### Component Information

| Chemical name                                    | Oral LD50                                  | Dermal LD50               | Inhalation LC50                                 |
|--------------------------------------------------|--------------------------------------------|---------------------------|-------------------------------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | LD50 >5840 mg/kg Rat                       | LD50 >2920 mg/kg (Rattus) | LC50 >23.3 mg/L (4h)(Rat, vapour)<br>(OECD 403) |
| Acetone                                          | =5800 mg/kg (Rattus)<br>3000 mg/Kg (mouse) | >15800 mg/Kg (Rattus)     | =79 mg/l(Rattus) 4 h                            |
| Butane                                           | -                                          | -                         | =658 g/m <sup>3</sup> (Rattus) 4 h              |
| Isobutane                                        | -                                          | -                         | =658 mg/L (Rattus) 4 h                          |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

| Acetone (67-64-1)                                       |         |                |                |               |          |
|---------------------------------------------------------|---------|----------------|----------------|---------------|----------|
| Method                                                  | Species | Exposure route | Effective dose | Exposure time | Results  |
| OECD Test No. 405:<br>Acute Eye<br>Irritation/Corrosion | Rabbit  | eye            |                |               | irritant |

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

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| Acetone (67-64-1)                   |            |                |                       |
|-------------------------------------|------------|----------------|-----------------------|
| Method                              | Species    | Exposure route | Results               |
| GPMT - Guinea pig maximisation test | Guinea pig | Dermal         | Not a skin sensitiser |

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT - single exposure** May cause drowsiness or dizziness.

| Acetone (67-64-1)            |         |                |                |               |                  |
|------------------------------|---------|----------------|----------------|---------------|------------------|
| Method                       | Species | Exposure route | Effective dose | Exposure time | Results          |
| Experiences made in practice |         |                |                |               | Narcotic effects |

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

| Acetone (67-64-1)                                                      |         |                |                     |                 |                                                        |
|------------------------------------------------------------------------|---------|----------------|---------------------|-----------------|--------------------------------------------------------|
| Method                                                                 | Species | Exposure route | Effective dose      | Exposure time   | Results                                                |
| OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents | Rat     | Oral           | 200-3400 mg/kg bw/d | 91 days         | No Observed Adverse Effect Level LOAEL 1700 mg/kg bw/d |
| Not specified                                                          | Rat     | Inhalation     | 19000 ppm           | 14, 28, 56 days | NOAEC 19000 ppm<br>No Observed Adverse Effect Level    |

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

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## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name                                                   | Algae/aquatic plants                                          | Fish                                                       | Toxicity to microorganisms | Crustacea                                           | M-Factor | M-Factor (long-term) |
|-----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|----------------------------|-----------------------------------------------------|----------|----------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>RR-100219-3 | ErL50 (72h) = 10-30 mg/L<br>(Pseudokirchneriella subcapitata) | LL50 (96h) >13.4 mg/L<br>(Oncorhynchus mykiss)<br>OECD 203 | -                          | EL50 (48h) = 3.0 mg/L<br>(Daphnia magna)            |          |                      |
| Acetone<br>67-64-1                                              | -                                                             | LC50 96 h 4.74 - 6.33 mL/L<br>(Oncorhynchus mykiss)        | EC50 = 14500 mg/L 15 min   | EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static) |          |                      |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)                      |               |       |                       |
|-------------------------------------------------------------------------------------|---------------|-------|-----------------------|
| Method                                                                              | Exposure time | Value | Results               |
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days       | 98%   | Readily biodegradable |

| Acetone (67-64-1)                                                         |               |                |                            |
|---------------------------------------------------------------------------|---------------|----------------|----------------------------|
| Method                                                                    | Exposure time | Value          | Results                    |
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) | 28 days       | biodegradation | 91 % Readily biodegradable |

### 12.3. Bioaccumulative potential

**Bioaccumulation**

#### Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Acetone       | -0.24                 |
| Butane        | 2.31                  |
| Isobutane     | 2.8                   |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

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## 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

|                                     |                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues/unused products | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.                                                        |
| European Waste Catalogue            | 16 05 04* gases in pressure containers (including halons) containing dangerous substances<br>15 01 04 metallic packaging                                     |
| Other information                   | Waste codes should be assigned by the user based on the application for which the product was used.                                                          |

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

|                                                                    |                                                     |
|--------------------------------------------------------------------|-----------------------------------------------------|
| 14.1 UN number or ID number                                        | UN1950                                              |
| 14.2 UN proper shipping name                                       | Aerosols                                            |
| 14.3 Transport hazard class(es)                                    | 2                                                   |
| Labels                                                             | 2.1                                                 |
| 14.4 Packing group                                                 | Not regulated                                       |
| Description                                                        | UN1950, Aerosols, 2, (D), Environmentally Hazardous |
| 14.5 Environmental hazards                                         | Yes                                                 |
| 14.6 Special precautions for user                                  |                                                     |
| Special Provisions                                                 | 63,190, 277, 327, 344, 381, 959                     |
| Limited Quantity (LQ)                                              | See SP277                                           |
| EmS-No.                                                            | F-D, S-U                                            |
| 14.7 Maritime transport in bulk according to IMO instruments       |                                                     |
| Transport in bulk according to Annex II of MARPOL and the IBC Code | Not applicable                                      |

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

|                                   |                                  |
|-----------------------------------|----------------------------------|
| 14.1 UN number or ID number       | UN1950                           |
| 14.2 UN proper shipping name      | Aerosols, flammable              |
| 14.3 Transport hazard class(es)   | 2.1                              |
| 14.4 Packing group                | Not regulated                    |
| Description                       | UN1950, Aerosols, flammable, 2.1 |
| 14.5 Environmental hazards        | Yes                              |
| 14.6 Special precautions for user |                                  |
| Special Provisions                | A145, A167, A802                 |
| Limited quantity (LQ)             | 30 kg G                          |
| ERG Code                          | 10L                              |

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## SECTION 15: Regulatory information

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

#### European Union

#### Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

##### Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

##### Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

##### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

##### Persistent Organic Pollutants

Not applicable

##### REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. This product contains:

| Chemical name     | Reporting of suspicious transactions, disappearances and thefts | Restricted | Registration |
|-------------------|-----------------------------------------------------------------|------------|--------------|
| Acetone - 67-64-1 | Regulated                                                       |            |              |

##### Regulation (EC) No. 648/2004 (Detergents regulation)

Labelling for contents according to regulation (EC) No. 648/2004

|                        |             |
|------------------------|-------------|
| aliphatic hydrocarbons | $\geq 30\%$ |
|                        |             |

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## National regulations

### France

#### Occupational Illnesses (R-463-3, France)

| Chemical name              | French RG number                       |
|----------------------------|----------------------------------------|
| Acetone<br>67-64-1         | RG 84                                  |
| Carbon dioxide<br>124-38-9 | RG 5, RG 14, RG 15, RG 15bis, RG 20bis |
| Butane<br>106-97-8         | RG 84                                  |
| Isobutane<br>75-28-5       | RG 84                                  |

### Germany

#### Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class Storage Class 2B : Aerosols

### Netherlands

#### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

### Denmark

Registration number(s) (P-no.) No information available

Young people under the age of 18 may not professionally use or be exposed to the product. However, young people over the age of 15 are exempt from this rule if the product is included as a necessary part of an education

### Norway

Registration number(s) (PRN-no.) No information available

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H220 - Extremely flammable gas  
H225 - Highly flammable liquid and vapour  
H280 - Contains gas under pressure; may explode if heated  
H281 - Contains refrigerated gas; may cause cryogenic burns or injury  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

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## Notes relating to the identification, classification and labelling of substances

Note 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

Note 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. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2)

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

## Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value

BGW

Biological limit value

Ceiling Maximum limit value

Sk\*

Skin designation

## Classification procedure

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used           |
|-----------------------------------------------------------------|-----------------------|
| Acute oral toxicity                                             | Calculation method    |
| Acute dermal toxicity                                           | Calculation method    |
| Acute inhalation toxicity - gas                                 | Calculation method    |
| Acute inhalation toxicity - vapour                              | Calculation method    |
| Acute inhalation toxicity - dust/mist                           | Calculation method    |
| Skin corrosion/irritation                                       | On basis of test data |
| Serious eye damage/eye irritation                               | On basis of test data |
| Respiratory sensitisation                                       | Calculation method    |
| Skin sensitisation                                              | Calculation method    |
| Mutagenicity                                                    | Calculation method    |
| Carcinogenicity                                                 | Calculation method    |
| Reproductive toxicity                                           | Calculation method    |
| STOT - single exposure                                          | Calculation method    |
| STOT - repeated exposure                                        | Calculation method    |
| Chronic aquatic toxicity                                        | Calculation method    |
| Acute aquatic toxicity                                          | Calculation method    |
| Aspiration hazard                                               | Calculation method    |
| Ozone                                                           | Calculation method    |
| Flammable aerosol                                               | On basis of test data |

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## **Key literature references and sources for data used to compile the SDS**

European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
NIOSH (National Institute for Occupational Safety and Health)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 21-Jan-2025

**Revision Note** SDS sections updated 2

**Training Advice** No information available

**Further information** No information available

## **Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.