

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31, Annex II  
according to Regulation (EU) No 2020/878

Printing date: 25.03.2023  
Revision date: 25.03.2023  
Version number: 2 (replaces version 1)

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

### 1.1 Product identifier

**Trade name:** FORCE Lubricant-Spray WAX with PTFE

**UFI:** 4C0E-4DSM-730P-NKY2

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

No use descriptors (LCS, SU, PC, PROC, ERC, AC, TF categories) of the substance or mixture are available.

**Application of the substance / the mixture:** Lubricant and preservative mixture in aerosol version.

**Uses advised against:** Any other than the above mentioned.

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

**Supplier:**

KCK Cyklosport-Mode s.r.o.

Bartošova 348, 765 02 Otrokovice - Kvítkovice, Czech Republic

Company ID 185 59 751

Phones: +420 724 047 411, +420 724 011 433

E-mail: info@kckcyklosport.cz / Website: www.kckcyklosport.cz

### Further information obtainable from:

Ing. Karel Královec, Studio2K, Czech Republic

Phone: +420 777 145 808, Email: bl@studio2k.cz, Website: www.bezpecnostni-listy.eu

### 1.4 Emergency telephone number

European Chemicals Agency. National helpdesks contact details - <https://echa.europa.eu/support/helpdesks>.

Links to Poison Centers and Clinical Toxicologists all over the World: <https://www.eapcct.org/index.php?page=links>.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The product is classified as dangerous in the terms of the Regulation (EC) No 1272/2008 (CLP).

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

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

**Additional information:**

According to Art. 1.3.3 of the CLP Regulation does not need to be marked with hazard statement H304, because it is placed on the market in aerosol containers.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008:** The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:**



GHS02

**Signal word:** Danger

**Hazard-determining components of labelling:**

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

**Hazard statements:**

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

**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Classification system:**

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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### 2.3 Other hazards

#### Results of PBT and vPvB assessment

##### PBT:

The mixture does not contain substances classified at the date of preparation of the safety data sheet as PBT according to Regulation (EC) No 1907/2006 (REACH) in a concentration equal to or greater than 0.1 % by weight.

##### vPvB:

The mixture does not contain substances classified at the date of preparation of the safety data sheet as vPvB according to Regulation (EC) No 1907/2006 (REACH) in a concentration equal to or greater than 0.1 % by weight.

#### Determination of endocrine-disrupting properties

The mixture does not contain substances that have been identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
REACH-IT: 926-141-6 REACH: 01-2119456620-43-XXXX	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics ⚠ Asp. Tox. 1, H304 EUH066	25 - 50%
CAS: 74-98-6 EINECS: 200-827-9 INDEX: 601-003-00-5 REACH: 01-2119486944-21-XXXX	Propane ⚠ Flam. Gas 1A, H220 Press. Gas (Comp.), H280	10 - 25%
CAS: 75-28-5 EINECS: 200-857-2 INDEX: 601-004-00-0 REACH: 01-2119485395-27-XXXX	Isobutane ⚠ Flam. Gas 1A, H220 Press. Gas (Comp.), H280	10 - 25%
CAS: 106-97-8 EINECS: 203-448-7 INDEX: 601-004-00-0 REACH: 01-2119474691-32-XXXX	Butane ⚠ Flam. Gas 1A, H220 Press. Gas (Comp.), H280	10 - 25%
REACH-IT: 920-901-0 REACH: 01-2119456810-40-XXXX	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics ⚠ Asp. Tox. 1, H304 EUH066	10 - 25%
CAS: 1474044-79-5 REACH-IT: 939-717-7 REACH: 01-2119980985-16-XXXX	Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 2.5%

#### SVHC:

The product does not contain substances classified as of the date of preparation of the safety data sheet as PBT or vPvB and stated in the Candidate list of substances producing very high concerns for Appendix XIV of Regulation (EC) No 1907/2006 (REACH).

**Regulation (EC) No 648/2004 on detergents / Labelling for contents:** Not apply.

#### Additional information:

Numbers in format 9xx-xxx-x were automatically allocated to preregistered reaction matters with more than one substance or such substances, which were preregistered only with a chemical title as the identifier. The numbers have no legal significance, but are purely technical identifiers for submission processing via the REACH-IT system.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3 of the Regulation (EC) No 1272/2008 (CLP Regulation) this means that all notes that may be given here for the named classification have been taken into account.

For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

In case of doubt, appearance of symptoms or upon any problems, seek medical help and present this safety data sheet or the product label.

Never pour anything into the mouth of an unconscious person!

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

#### After inhalation:

Remove person from danger area.

Take care of fresh air supply and seek medical assistance upon subsequent or lasting problems.

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### After skin contact:

Wash the affected skin with water and soap and rinse thoroughly. Upon skin irritation or other problems, consult further procedure with an expert physician.

### After eye contact:

Open the eyelids, possibly remove the contact lenses, and thoroughly rinse the affected eyes with clean flowing water for about 15 minutes. Upon persisting eye irritation or other troubles, consult further procedure with an ophthalmologist.

### After swallowing:

Ingestion is not expected with a mixture in the aerosol packaging.

Thoroughly rinse the mouth with water and do not cause vomiting. Put the affected person in warm and calm conditions. Seek medical assistance immediately.

**Information for doctor:** Symptomatic treatment.

**Hazards:** Danger of impaired breathing.

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

Possible toxicological effects resulting from the classification are stated in Section 11.

The following may occur:

Skin irritation.

Skin drying and cracking upon long-term contact.

Direct eye contact may cause irritation.

There is a certain health risk upon ingestion.

Risk of respiratory distress and lung damage.

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

In case of ingestion seek medical help immediately.

For special medical advice, contact the Toxicology Information Centre.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Carbon dioxide (CO<sub>2</sub>), extinguishing foam, extinguishing powder, water spray. Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet.

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

Formation of irritating, toxic and harmful fumes of burning is possible in case of fire.

In case of fire, the following can be released:

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

Toxic gases.

Flammable gases and mixtures with air.

Inhalation of hazardous decomposition products of burning may result in damaged health.

Heat action on the vessel leads to an increase of pressure, thus creating danger of a vessel rupture and a subsequent explosion.

### 5.3 Advice for firefighters

#### Protective equipment:

Do not inhale explosion gases or combustion gases.

According to size of fire.

Corresponding protective insulation breathing apparatus and overpressure counter-chemical protective clothing.

#### Additional information:

Cool with water the products in enclosed packaging, which is near the fire. If possible, remove the products in un-damaged packaging from the danger area. Store the contaminated extinguishing water separately and do not let it into the sewerage. Remove the extinguishing water or used extinguishing materials together with the remnants of the fire according to the corresponding regulations.

## SECTION 6: Accidental release measures

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

Respect the instructions set forth in Sections 7 and 8 of the safety data sheet.

#### For non-emergency personnel:

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition and affected area well ventilate.

Use personal protective equipment.

Avoid contact with eyes and skin.

Prevent inhalation of vapours/aerosols.

Possibly prevent slipping hazard.

Prevent the entry of unauthorised persons, ban smoking.

**For emergency responders:** See section 8 for suitable protective equipment and material specification.

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### 6.2 Environmental precautions

Prevent increasing of the leaked quantity. Do not let the product enter the sewerage, surface and ground water and soil. Upon a more extensive leak of the product into the environment, proceed according to local regulations and contact the respective departments of local authorities.

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

Upon a leak of the aerosol/gas, secure sufficient ventilation of the premises. In case of insufficient ventilation, explosive mixtures of vapours with air may be created.

#### Active mixture:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and place into suitable and marked vessels.

Possibly wipe the leaked product with a paper towel and place it into a waste vessel.

Protect health against exposure of contained substances from the atmosphere, see the limit values of exposure, which are stated in Section 8.

Thoroughly wash the affected place and the tools used with a suitable detergent, do not use thinners.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## \* SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

In addition to the information provided in this section, important information is also provided in Sections 6 and 8.

#### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Do not spray onto a naked flame or any incandescent material.

Possibly perform measures for protection against electrostatic discharge.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

#### Handling:

Before use, it is necessary to familiarize oneself with the contents of Sections 2, 6, 8, and 11 of the safety data sheet.

Ensure good ventilation.

Use only in well ventilated areas.

Use personal protective equipment.

Avoid contact with eyes and skin.

Avoid inhalation of vapours and aerosols.

Use working methods according to operating instructions.

Observe directions on label and instructions for use.

General hygiene measures for the handling of chemicals are applicable.

Before a pause and after ending the work, wash the hands and take off the polluted working clothes. Keep these clothes separately.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Do not eat, drink, smoke, or snuff during use.

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

#### Storage

##### Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Observe official regulations on storing packagings with pressurised containers.

##### Information about storage in one common storage facility:

Keep away from food, drink and animal feedingstuffs.

Do not store together with acids and strong oxidizing agents.

##### Further information about storage conditions:

Store in a well ventilated place.

Store in a dry and cool place.

Protect from direct sunlight and warming.

Keep out of access to unauthorised individuals.

**Maximum storage temperature:** +50 °C.

**Recommended storage temperature:** 0 - +25 °C.

**7.3 Specific end use(s)** Specific use is stated in the manual for use on the product packaging label or in the product documentation.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Regulatory information:** IOELV: COMMISSION DIRECTIVE (EU) 2019/1831

**DNELs:** No values available.

**PNECs:** No values available.

##### Ingredients with biological limit values:

The product does not contain any relevant quantities of materials with biological limit values.

**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under WEL or IOEL values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

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

###### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols.

Avoid contact with the eyes and skin.

##### Eye/face protection:



In case of danger of contact with eyes, use tightly adhering protective goggles (EN 166).

##### Body protection:

Not required during regular use.



As needed, use the working protective clothes.

##### Hand protection

Not required during regular use.



As needed, use protective gloves (EN ISO 374-1).

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Preventive skin protection by use of skin-protecting agents is recommended.

##### Material of gloves:

For long-term contact:

Nitrile rubber gloves (EN ISO 374-1).

Recommended thickness of the material:  $\geq 0.35$  mm.

Polyvinyl alcohol gloves - PVA (EN ISO 374-1).

Recommended thickness of the material:  $\geq 1.5$  mm.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

##### Penetration time of glove material:

$\geq 480$  minutes (EN 16523-1).

No tests have been performed, glove resistance must be tested before use.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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### Respiratory protection:

Unnecessary during regular use.



In case of insufficient ventilation and exceeding permitted exposure limits, use a suitable half-mask (EN 149+A1) with a filter (EN 14387+A1), upon high concentrations, use an insulation breathing apparatus (EN 137, EN 138).

Observe wearing time limitations for respiratory protection equipment.

**Recommended filter device for short term use:** Not determined.

**Thermal hazards:** Not applicable.

**Environmental exposure controls:** Adhere to usual measures for environmental protection, see Section 6.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state:</b>	Aerosol, active mixture: liquid.
<b>Colour:</b>	Dark brown
<b>Odour:</b>	Characteristic of solvents.
<b>Melting point/freezing point:</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range:</b>	-11.7 °C (*)
<b>Flammability:</b>	Does not apply to aerosols.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	1.8 Vol. % (*)
<b>Upper:</b>	8.4 Vol. % (*)
<b>Flash point:</b>	~ -80 °C (*)
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH:</b>	Not determined.
<b>Viscosity</b>	
<b>Kinematic viscosity:</b>	Not determined.
<b>Kinematic viscosity:</b>	
<b>Dynamic viscosity:</b>	Not determined.
<b>Solubility</b>	
<b>water:</b>	Very low solubility.
<b>fats:</b>	Not determined.
<b>Partition coefficient n-octanol/water (log value):</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	0.3 MPa
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Relative gas density:</b>	Not determined.

### 9.2 Other information

**Ignition temperature:** ~ 420 °C (\*)

#### Important information on protection of health and environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.  
Development of explosive / easily flammable mixtures of vapours with air possible.

#### Solvent content

**VOC (2010/75/EC):** Not determined.

**Oxidising properties:** No.

**Evaporation rate:** Not determined.

**Relative evaporation rate:** Not determined.

#### Information with regard to physical hazard classes

**Explosives:** Void.

**Flammable gases:** Void.

#### Aerosols:

Extremely flammable aerosol. Pressurised container: May burst if heated.

**Oxidising gases:** Void.

**Gases under pressure:** Void.

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<b>Flammable liquids:</b>	Void.
<b>Flammable solids:</b>	Void.
<b>Self-reactive substances and mixtures:</b>	Void.
<b>Pyrophoric liquids:</b>	Void.
<b>Pyrophoric solids:</b>	Void.
<b>Self-heating substances and mixtures:</b>	Void.
<b>Substances and mixtures, which emit flammable gases in contact with water:</b>	Void.
<b>Oxidising liquids:</b>	Void.
<b>Oxidising solids:</b>	Void.
<b>Organic peroxides:</b>	Void.
<b>Corrosive to metals:</b>	Void.
<b>Desensitised explosives:</b>	Void.
<b>Additional information:</b>	(*) Valid for: propane, butane, isobutane.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** Upon adhering to the determined regulations of storage and use, no reactivity is expected (see Section 7).

**10.2 Chemical stability** Upon adhering to the determined regulations of storage and use, the product is stable (see Section 7).

**10.3 Possibility of hazardous reactions** Upon regular manner of use and storage, no hazardous reactions are created.

**10.4 Conditions to avoid**

Prevent contact with incompatible materials.

Protect against open flames and ignition sources.

Prevent excessive heating by various heat sources above +50 °C. The growth of the pressure in the spray bottle leads to the danger of its bursting.

**10.5 Incompatible materials** Strong acids, strong oxidizing agents.

**10.6 Hazardous decomposition products**

No decomposition when used as directed.

At high temperatures, hazardous decomposition products may be created (see Subsection 5.2).

### SECTION 11: Toxicological information

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

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

<b>Relevant toxicological values for classification:</b>		
<b>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>		
Oral	LD50	> 5,000 mg/kg (rat) (OECD 401 - Acute Oral Toxicity)
Dermal	LD50	> 5,000 mg/kg (rabbit) (OECD 402 - Acute Dermal Toxicity)
Inhalative	LC50/4 h	> 20 mg/l (rat) (OECD 403 - Acute Inhalation Toxicity)
Couples.		
<b>74-98-6 Propane</b>		
Inhalative	LC50/4 h	658 mg/l (rat)
	NOAEC	21.641 mg/l (OECD 422 - Combined Repeated Dose Tox.) Toxicity for reproduction
	NOAEL	7.214 mg/l (rat) (OECD 422 - Combined Repeated Dose Tox.) Specific target organ toxicity - repeated exposure (STOT-RE), inhalation
<b>75-28-5 Isobutane</b>		
Inhalative	LC50/4 h	658 mg/l (rat)
	NOAEL	21.394 mg/l (rat) (OECD 422 - Combined Repeated Dose Tox.) Specific target organ toxicity - repeated exposure (STOT-RE), inhalation
<b>106-97-8 Butane</b>		
Inhalative	LC50/4 h	658 mg/l (rat)
	NOAEL	21.394 mg/l (rat) (OECD 422 - Combined Repeated Dose Tox.) Specific target organ toxicity - repeated exposure (STOT-RE), inhalation
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>		
Oral	LD50	> 5,000 mg/kg (rat) (OECD 401 - Acute Oral Toxicity)
Dermal	LD50	> 5,000 mg/kg (rabbit) (OECD 402 - Acute Dermal Toxicity)
Inhalative	LC50/8 h	> 5,000 mg/m3 (rat) (OECD 403 - Acute Inhalation Toxicity)
<b>1474044-79-5 Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts</b>		
Oral	ATE	> 2,500 mg/kg (rat)
Dermal	ATE	> 10,000 mg/kg (rat)

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**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

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

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

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

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

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

**Additional toxicological information:** Repeated exposure may cause skin dryness or cracking.

**Acute effects:** No acute effects are known.

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

**CMR effects (carcinogeny, mutagenicity and toxicity for reproduction):**  
Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

#### Endocrine disrupting properties:

None of the ingredients is listed.

**Other information:** No further information is available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

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

<b>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	
NOELR/28 d	0.173 mg/l (fish) (QSAR Petrotox) Oncorhynchus mykiss
NOELR/21 d	1,220 mg/l (daphnia) (QSAR Petrotox) Daphnia magna
EL50/48 h	> 1,000 mg/l (daphnia) (OECD 202 - Daphnia sp. Acute Immobilisation Test) Daphnia magna
LL50/96 h	> 1,000 mg/l (fish) (OECD 203 - Fish, Acute Toxicity Test) Oncorhynchus mykiss
ErL50/72 h	> 1,000 mg/l (algae) (OECD 201 - Alga, Growth Inhibition Test) Pseudokerchneriella subcapitata
<b>74-98-6 Propane</b>	
LC50/48 h	16.3 mg/l (daphnia) Daphnia magna
LC50/96 h	16.1 mg/l (fish)
IC50/72 h	11.3 mg/l (algae)
<b>75-28-5 Isobutane</b>	
LC50/96 h	27.98 mg/l (fish)
EC50/96 h	7.71 mg/l (algae)
<b>106-97-8 Butane</b>	
LC50/48 h	14.22 mg/l (daphnia) (QSAR)
LC50/96 h	24.11 mg/l (fish) (QSAR)
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
NOELR/28 d	0.32 mg/l (fish) (QSAR) Oncorhynchus mykiss
NOELR/72 h	1,000 mg/l (algae) (OECD 201 - Alga, Growth Inhibition Test) Pseudokerchneriella subcapitata
EL50/48 h	> 1,000 mg/l (daphnia) (OECD 202 - Daphnia sp. Acute Immobilisation Test) Daphnia magna
LL50/96 h	> 1,000 mg/l (fish) (OECD 203 - Fish, Acute Toxicity Test) Oncorhynchus mykiss
ErL50/72 h	> 1,000 mg/l (algae) (OECD 201 - Alga, Growth Inhibition Test) Pseudokerchneriella subcapitata

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<b>1474044-79-5 Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts</b>	
LC50/96 h	> 0.28 mg/l (fish) Oncorhynchus mykiss
EC50/72 h	> 0.27 mg/l (invertebrates) Daphnia magna
<b>12.2 Persistence and degradability</b>	
<b>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	
Biodegradability in water	69 %/28 d (OECD 301 F - Ready Biodeg. - Mon. Resp. Inh. Test) the substance is readily biodegradable
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
Biodegradability in water	31 %/28 d (OECD 301 F - Ready Biodeg. - Mon. Resp. Inh. Test) the substance is not easily but inherently biodegradable

**Behaviour in waste water treatment plants:** No relevant information is available.

<b>12.3 Bioaccumulative potential</b>	
<b>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	
log Pow	6 - 8 bioaccumulation is possible
<b>74-98-6 Propane</b>	
log Pow	2.28 significant bioaccumulation is not expected
<b>106-97-8 Butane</b>	
log Pow	2.98 significant bioaccumulation is not expected

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

The product does not contain substances classified as PBT or vPvB and included in the list of substances subject to authorization (Annex XIV of EP and R Regulation No 1907/2006, as amended).

**PBT:** No relevant information is available.

**vPvB:** No relevant information is available.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects** No other adverse effects are known.

### Additional ecological information

**AOX-indication:** No relevant information is available.

### General notes:

Product can compose a film on the water surface, which can prevent oxygen exchange.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation:

Must not be disposed together with household waste. Do not allow product to reach sewage system.

The mixture is disposed of together with the pressure vessel.

Remove product residues according to the corresponding local directives in the adequate equipment as hazardous waste.

E.g. put away at suitable waste dumps or remove in suitable waste incineration plants.

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

#### Waste disposal key:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC, 2014/955/EU).

The catalogue numbers with the asterisk (\*) mark hazardous waste (N), numbers without the asterisk mark other waste (O).

<b>European waste catalogue and hazardous properties of waste:</b>	
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
15 01 04	metallic packaging

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# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31, Annex II  
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HP3	Flammable
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**Uncleaned packaging**

**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.  
 Completely empty the pressure bottles (including the propelling gas).  
 Do not open by force or incinerate empty pressure bottles after use.  
 Take full aerosol cans to problem waste collection.  
 Handover the emptied packaging to the authorised organisation, which has a licence for their disposal.

**Regulations:**

Commission Decision No 2014/955/EU of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council.  
 Commission Regulation (EU) No 1357/2014, replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives.  
 Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.  
 Decree of the MoE and MoH No 94/2016 Coll. about the evaluation of hazardous properties of waste, as amended by Decree No 199/2019 Coll.

**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b> ADR, IMDG, IATA	UN1950
<b>14.2 UN proper shipping name</b> ADR IMDG IATA	1950 AEROSOLS, flammable AEROSOLS AEROSOLS, flammable
<b>14.3 Transport hazard class(es)</b> ADR	
	
<b>Class:</b> <b>Label:</b>	2 5F Gases. 2.1
<b>IMDG, IATA</b>	
	
<b>Class:</b> <b>Label</b>	2.1 Gases. 2.1
<b>14.4 Packing group</b> ADR, IMDG, IATA	Void.
<b>14.5 Environmental hazards</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b> Hazard identification number (Kemler code): EMS Number: Stowage Code:	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

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<b>Segregation Code:</b>	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ):</b>	1L
<b>Excepted quantities (EQ):</b>	Code: E0 Not permitted as Excepted Quantity
<b>Transport category:</b>	2
<b>Tunnel restriction code:</b>	D
<b>IMDG</b>	
<b>Limited quantities (LQ):</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity.
<b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

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

**Directive 2004/42/EC of the European Parliament and the Council:** Does not apply.

**Named dangerous substances - ANNEX I:** None of the ingredients is listed.

**Seveso category:** P3a FLAMMABLE AEROSOLS

**Qualifying quantity (tonnes) for the application of lower-tier requirements:** 150 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500 t

**REGULATION (EC) No 1907/2006 ANNEX XVII:** Conditions of restriction for the group No 3.

#### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:**

None of the ingredients is listed.

#### **REGULATION (EU) 2019/1148:**

##### **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

##### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

##### **Regulation (EC) No 273/2004 on drug precursors:**

None of the ingredients is listed.

##### **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:**

None of the ingredients is listed.

#### **Legal regulations of the European Community:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC, as amended.

COMMISSION REGULATION (EU) amending for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures: 2016/918 (8. ATP from 1.2.2018), 2016/1179 (9. ATP from 1.3.2018), 2017/776 (10. ATP from 1.12.2018), 2018/669 (11. ATP from 1.12.2019), 2019/521 (12. ATP from 17.10.2020), 2018/1480 (13. ATP from 1.5.2020).

COMMISSION DELEGATED REGULATION (EU) amending for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of

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substances and mixtures:

2020/217 (14. ATP from 1.10.2021), 2020/1182 (15. ATP from 1.3.2022), 2021/643 (16. ATP from 10.5.2021), 2021/849 (17. ATP from 17.12.2022).

**15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

#### Warning:

The safety data sheet contains data needed for securing safety and health protection during work and environmental protection. The stated data correspond to the current state of knowledge and experience and is in accordance with valid legal regulations. It cannot be deemed as a guarantee of the properties, suitability, and usefulness of the product for specific application and therefore no contractual legal relationships are hereby created.

The safety data sheet is the property of the physical or legal entity stated in Section 1 and is protected by copy-right. All copying, distribution or sales without the consent of the owner is forbidden.

#### Relevant phrases:

H220 Extremely flammable gas.  
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.  
EUH066 Repeated exposure may cause skin dryness or cracking.

#### Training hints:

Pursuant to article No 35 of the European Parliament and Council Regulation (ES) No 1907/2006, the employer must allow employees or their representatives access to information from the safety data sheet of the substance or preparation, which the employees use or to the effects of which they may be exposed during their work.

Physical entities performed individual activities within the scope of handling of this hazardous product are trained and regularly, at least once a year, retrained.

Product information sources: safety data sheet, product or technical information, safety instructions, and other expert documents for the product, issued by the supplier.

#### Recommended restriction of use:

The product is to be used only for the purpose, for which it is designed. It is up to the user's responsibility to adhere to the product usage conditions and to respect the safety instructions for health and environmental protection.

#### Further information:

This product must be stored, sold, and used in accordance with valid hygienic regulations.

Standard packaging: tin spray bottle.

#### Classification according to Regulation (EC) No 1272/2008:

Aerosols, Section 2.3.1	Based on test data
Aspiration hazard	Calculation method

#### Department issuing SDS:

Ing. Karel Královec, Studio2K, Czech Republic

Phone: +420 777 145 808, Email: info@studio2k.cz, Website: www.studio2k.cz / www.bezpecnostni-listy.eu

**First issue of SDS:** 16.08.2017

**Date of previous version:** 16.08.2017

**Version number of previous version:** 1

**Reasons for alterations:** Revision of the safety data sheet due to changes or additions to some data and information.

**Revised sections:** 1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 15, 16.

**Internal code formula:** 1180.002

#### Documents used to prepare SDS:

The original documents provided by the supplier or manufacturer related to the product (mixture), eventually to individual substances contained.

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

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vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

**Sources:**

The safety data sheet was prepared in accordance with the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) and according to the requirements of the European Parliament and Council Regulation (EC) No 1907/2006 about the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency - head IV, article 31, appendix II (instructions for safety data sheet compiling), as amended by the Commission Regulation (EU) No 2020/878 of 18 June 2020.

The missing ecotoxicology and toxicology data was obtained from the ESIS (European chemical Substances Information System), specifically from the IUCLID (International Uniform Chemical Information Database). As needed, data from further available chemical databases was used.

**\* Data compared to the previous version altered.**

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