

Safety data sheet

according to Regulation (EC) No 1907/2006, (EU) No 2015/830

Printing date: 16.08.2017

Version number: 1

Revision: 16.08.2017

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

1.1 Product identifier

Trade name: **FORCE SILICONE oil**

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

No further relevant information available.

Application of the substance / the mixture: Lubricating and impregnating compound in aerosol version.

Uses advised against: No information available at present.

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

Phone: +420 577 217 520, +420 577 219 152

E-mail: info@kckcyklosport.cz / Web site: www.kckcyklosport.cz

Further information obtainable from: Ing. Karel Královec, Studio2K, E-mail: bl@studio2k.cz

1.4 Emergency telephone number

Phone: +420 224 919 293 or +420 224 915 402; E-mail: tis@vfn.cz

Toxicology Information Centre in Prague (TIS), Na Bojišti 1, 120 00 Prague 2

Permanent medical information service for cases of acute poisoning of humans and animals.

National helpdesks contact details - <http://echa.europa.eu/cs/support/helpdesks/national-helpdesks/list-of-national-helpdesks>.

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.

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: Void.

Hazard statements:

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

Precautionary statements:

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/122 °F.

Additional information: Void.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

The mixture does not contain substances classified as of the date of preparation of the safety data sheet as PBT pursuant to Regulation (EC) No 1907/2006 (REACH).

vPvB:

The mixture does not contain substances classified as of the date of preparation of the safety data sheet as vPvB pursuant to Regulation (EC) No 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:			
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane	⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 17.0%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane	⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 17.0%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane	⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	< 17.0%

· **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:**

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.

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.

· **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:**

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

· **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:

Direct eye contact may cause irritation.

· **4.3 Indication of any immediate medical attention and special treatment needed**

In case of ingestion seek medical help immediately.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**· **Suitable extinguishing agents:**

Carbon dioxide (CO₂), 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**

In case of fire, hazardous gases can be released.

In case of fire, the following can be released:

Carbon monoxide (CO) a carbon dioxide (CO₂).

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.

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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

Ensure adequate ventilation.

Prevent the entry of unauthorised persons, ban smoking.

Wear protective equipment. Keep unprotected persons away.

Prevent inhalation of vapours/aerosols.

Prevent the possibility of slipping on leaked product.

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.

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 item 13.

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

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

Avoid inhalation of vapours and aerosols.

Use only in well ventilated areas.

Prevent contact of the product with the skin and eyes, use personal protective means.

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.

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

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.

7.2 Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and receptacles:**

Store product well closed and only in original packing.

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.**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.

Recommended storage temperature: 0 - +25 °C.*(Contd. on page 4)*

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· **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.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:**

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.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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· **Regulatory information:** WEL (Great Britain): EH40/2011

· **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**

· **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.

Avoid contact with the eyes and skin.

Do not inhale gases/fumes/aerosols.

· **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.

· **Protection of hands:**

Not required during regular use.



As needed, use protective gloves (EN 374).

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:**

Not determined.

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:**

Not determined.

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.

· **Eye protection:**



In case of danger of contact of the product drops with eyes, use tightly adhering protective goggles.

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- **Body protection:**
Not required during regular use.
As needed, use the working protective clothes.

- **Thermal hazards:** Not applicable.

- **Limitation and supervision of exposure into the environment:**
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

· Appearance

Form: Aerosol, active mixture: liquid.
Colour: Colourless.

· **Odour:** Pleasant, after adding essences.
· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point: Not determined.
Initial boiling point and boiling range: -11,7 °C (*)

· **Flash point:** ~ -80 °C (*)

· **Flammability (solid, gas):** Not applicable.

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

· **Decomposition temperature:** Not determined.

· **Auto-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.

· Explosion limits

Lower: 1.8 Vol % (*)
Upper: 8.4 Vol % (*)

· **Oxidising properties:** No.

· **Vapour pressure at 20°C:** 0,3 MPa

· **Density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with water:** Insoluble.

· **Partition coefficient: n-octanol/water:** Not determined.

· Viscosity

Dynamic: Not determined.
Kinematic: Not determined.

· Solvent content

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

· 9.2 Other information

Additional information: (*) 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:

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:** No incompatible materials are known.

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

- **LD/LC50 values relevant for classification:**

74-98-6 propane		
Inhalative	LC50/4 h	658 mg/l (rat)
	NOAEC	21.641 mg/l (OECD 422 - Combined Repeated Dose Tox.) Toxicity for reproduction
106-97-8 butane		
Inhalative	LC50/4 h	658 mg/l (rat)
75-28-5 isobutane		
Inhalative	LC50/4 h	658 mg/l (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on the available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on the available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** No relevant information is available.
- **Acute effects:** No acute effects are known.
- **Repeated dose toxicity:** Based on the available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
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:** Based on available data, the classification criteria are not met.
- **Other information:** No further information is available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Based on the available data, the classification criteria are not met.

74-98-6 propane		
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)	

- **12.2 Persistence and degradability** Oil has a similar persistence as petroleum products. It is not readily biodegradable.
- **Behaviour in waste water treatment plants:** No relevant information is available.

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

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

- **General notes:** Generally not hazardous for water.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**
The mixture does not contain substances classified as of the date of preparation of the safety data sheet as the PBT pursuant to Regulation (EC) No 1907/2006 (REACH).

- **vPvB:**
The mixture does not contain substances classified as of the date of preparation of the safety data sheet as the vPvB pursuant to Regulation (EC) No 1907/2006 (REACH).

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· **12.6 Other adverse effects** No other adverse effects are known.

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).

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

· **European waste catalogue:**

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
HP 3	Flammable

· **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.

Handover the emptied packaging to the authorised organisation, which has a licence for their disposal.

· **Regulations:**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.

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.

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.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1950

· **14.2 UN proper shipping name**

· **ADR**

1950 AEROSOLS

· **IMDG**

AEROSOLS

· **IATA**

AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class:**

2 5F Gases.

· **Label:**

2.1

· **IMDG, IATA**



· **Class:**

2.1

· **Label**

2.1

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· 14.4 Packing group · ADR, IMDG, IATA	Void.
· 14.5 Environmental hazards · Marine pollutant:	No.
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code: · Segregation 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. 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.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ): · Excepted quantities (EQ): · Transport category: · Tunnel restriction code:	1L Code: E0 Not permitted as Excepted Quantity 2 D
· IMDG · Limited quantities (LQ): · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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.
- **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) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
Council Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances, as amended.
COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 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.
- **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

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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.

· 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:

Classification of the mixture was performed according to the methods given in Annex I to Regulation (EC) No 1272/2008 (CLP).

Flammability classification aerosol was performed according to test results.

· **Department issuing SDS:** Studio2K, Ing. Karel Královec, Phone: +420 354 526 677, E-mail: info@studio2k.cz

· **First issue of SDS:** 16.08.2017

· **Internal code formula:** 1180.001

· 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 européen sur le transport 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

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

· 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 2015/830 dated 28 May 2015.

The classification of the mixture was performed pursuant to the European Parliament and Council Regulation (EC) No 1272/2008 (CLP). The data provided by the manufacturers or importers of individual mixture components stated in their safety data sheets served as the basis.

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.

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