



SAFETY DATA SHEET

FLUX-OFF

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Compilation date: 11.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: FLUX-OFF

Product code: 705.400.000

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

Use of substance / mixture: Cleaning agent / Cleaner

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Germany

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Aerosol 1: H222; Skin Irrit. 2: H315; Asp. Tox. 1: H304; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

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.

H304: May be fatal if swallowed and enters airways.

Hazard pictograms: GHS02: Flame

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GHS07: Exclamation mark

GHS09: Environmental



Signal words: Danger

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.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P337+313: If eye irritation persists: Get medical advice/attention.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501: Dispose of to.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	25.000%

KOHLENWASSERSTOFFE, C6-C7, N-ALKANE, ISOALKANE, CYLENE, <5%N-HEXAN - REACH registered number(s): 01-2119475514-35

921-024-6	-	-	Flam. Liq. 2: H225; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336; Asp. Tox. 1: H304	25.000%
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N-BUTYL ACETATE

204-658-1	123-86-4	-	Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066	15.000%
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1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-	Flam. Liq. 3: H226; STOT SE 3: H336	5.000%
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DIMETHOXYMETHAN

203-714-2	109-87-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	5.000%
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KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%
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Contains: aliphatic hydrocarbons 15-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m ³	1250 mg/m ³	-	-

N-BUTYL ACETATE

UK	724 mg/m ³	966 mg/m ³	-	-
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1-METHOXY-2-PROPANOL

UK	375 mg/m ³	560 mg/m ³	-	-
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DIMETHOXYMETHAN

EU	3200 mg/m ³	-	-	-
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KOHLENDIOXID

EU	9100 mg/m ³	-	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term filter device: Filter A/P2

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Viton gloves. Recommended thickness of the material: $\geq 0,4\text{mm}$ 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Viscosity: Not determined.

Boiling point/range°C: Not applicable.

Flammability limits %: lower: 1,0 Vol%

Flash point°C: -18°C

Vapour pressure: bei 20 °C: 6500hPa

pH: Not applicable.

Melting point/range°C: Undetermined.

upper: 12,0 Vol%

Autoflammability°C: $>200^{\circ}\text{C}$

Relative density: Not determined.

VOC g/l: 95,10%

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9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C: 0,78 g/cm³

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

KOHLLENWASSERSTOFFE, C6-C7, N-ALKANE, ISOALKANE, CYLENE, <5%N-HEXAN

DERMAL	RBT	LD50	>2920	mg/kg
GASES	RAT	4H LC50	25,2	mg/l
ORAL	RAT	LD50	>5840	mg/kg

N-BUTYL ACETATE

ORL	MUS	LD50	6	gm/kg
ORL	RAT	LD50	10768	mg/kg

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1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200	mg/kg
ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLWASSERSTOFFE, C6-C7, N-ALKANE, ISOALKANE, CYLENE, <5%N-HEXAN

ALGAE	72H ErC50	30	mg/l
Daphnia magna	48H EC50	3	mg/l
Oncorhynchus mykiss	96H ErC50	11,4	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic for fish Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

[cont...]

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Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to official regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS AEROSOLS
(Hydrocarbons, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5%N-HEXANE)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Gases EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code: SG69

Tunnel code: D

IMDG seg. group: LQ: 1L; EQ E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category:
E2 Hazardous to the Aquatic Environment
P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier

[cont...]

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requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H229: Pressurised container: May burst if heated

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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ISOPROPANOL

Page: 1

Compilation date: 05.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: ISOPROPANOL

Product code: 704.400.000

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

Use of substance / mixture: Cleaning agent / Cleaner

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Germany

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; Flam. Aerosol 1: H222; STOT SE 3: H336; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.
 H229: Pressurised container: May burst if heated
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.

Hazard pictograms: GHS02: Flame
 GHS07: Exclamation mark



Signal words: Danger

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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.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501: Dispose of to.

2.3. Other hazards

Other hazards: Buildup of explosive mixtures without sufficient ventilation.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	90.000%

KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	10.000%
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Contains: Additional information: For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Generally the product does not irritate the skin.

Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

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

Eye contact: Causes serious eye irritation.

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

Inhalation: May cause drowsiness or dizziness.

[cont...]

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Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Refer to section 13 of SDS for suitable method of disposal. Ventilate affected area.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. 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. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

[cont...]

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m ³	1250 mg/m ³	-	-

KOHLENDIOXID

EU	9100 mg/m ³	-	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term filter device: type A
Not necessary if room is well-ventilated.

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile gloves. Recommended thickness of the material: $\geq 0,35$ 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Fully miscible

Boiling point/range°C: Not applicable.

Melting point/range°C: -89,5 °C

Flammability limits %: lower: 2 Vol %

upper: 12 Vol %

Flash point°C: 13°C

[cont...]

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Vapour pressure: at 20°C: 6700hPa

pH: neutral

Autoflammability°C: 425°C

Relative density: Not determind.

VOC g/l: 99,90 %

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C: 0,56 g/cm3

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decompsition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

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

Eye contact: Causes serious eye irritation.

[cont...]

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

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: 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

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommended cleansing agents: Water, if necessary together with cleansing agents.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: Aerosols

14.3. Transport hazard class(es)

Transport class: 3

[cont...]

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14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Flammable liquids.

Danger code (Kemler): 33

EMS Number: F-D,S-U

Stowage Code: SW1, SW22

Segregation Code: SG69

Tunnel code: D/E

Transport category: 2

IMDG seg. group: LQ:1L; EQ E2

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t. Qualifying quantity (tonnes) for the application of Upper-tier requirements 50.000 t.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H229: Pressurised container: May burst if heated

H280: Contains gas under pressure; may explode if heated.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

[cont...]

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and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



SAFETY DATA SHEET

SPAYOIL

Page: 1

Compilation date: 12.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: SPAYOIL

Product code: 710.400.000

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

Use of substance / mixture: Lubricating oil

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Germany

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411; Flam. Aerosol 1: H222;

Asp. Tox. 1: H304; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H304: May be fatal if swallowed and enters airways.

Hazard pictograms: GHS02: Flame

GHS09: Environmental

GHS07: Exclamation mark

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Signal words: Danger

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.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P337+313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of to.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - REACH registered number(s): 01-2119484651-34

EINECS	CAS	PBT / WEL	CLP Classification	Percent
931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	35.000%

KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

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

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Ingestion: May be fatal if swallowed and enters airways.

Inhalation: Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. Pressurised container: protect from sunlight and do not expose to temperatures

[cont...]

SAFETY DATA SHEET

SPAYOIL

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exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Storage class:
2B

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

KOHLENDIOXID

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	9100 mg/m ³	-	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile gloves. Recommended thickness of the material: $\geq 0,4\text{mm}$ 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Safety glasses.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Pale brown

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Viscosity: Not determined.

Boiling point/range°C: Not applicable

Melting point/range°C: Undetermined.

Flammability limits %: lower: 1,0 Vol%

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Flash point°C: -26°C
Vapour pressure: at 20°C: 6600hPa
pH: Not applicable.

upper: 7,4 Vol%
Autoflammability°C: >200°C
Relative density: Not determined.
VOC g/l: 37,01%

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C: 0,07g/cm3

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

KOHLLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Symptoms / routes of exposure

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to official regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS AEROSOLS
(KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

Packing group: Void

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Gases EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code:
SG69

Tunnel code: D

IMDG seg. group: LQ:1L; EQ E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: not applicable

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category:
E2 Hazardous to the Aquatic Environment
P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t. Regulation (EC) No 1907/2006 ANNEX XVII Conditions of restriction:28

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

[cont...]

SAFETY DATA SHEET

SPAYOIL

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Phrases used in s.2 and s.3: H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H229: Pressurised container: May burst if heated
H280: Contains gas under pressure; may explode if heated.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** SPRAYWASH**Product code:** 703.400.000**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** Cleaning agent / Cleaner**1.3. Details of the supplier of the safety data sheet****Company name:** ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Deutschland

Tel: +49 (0)30 / 36 46 40 36**Email:** gunnar.kleinmann@ecsag.com**1.4. Emergency telephone number****Emergency tel:** Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification**2.1. Classification of the substance or mixture****Classification under CLP:** Flam. Aerosol 1: H222; STOT SE 3: H336; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Asp. Tox. 1: H304; -: H229**Most important adverse effects:** Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.**2.2. Label elements****Label elements:****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.**Hazard pictograms:** GHS02: Flame
GHS07: Exclamation mark
GHS09: Environmental

SAFETY DATA SHEET

SPRAYWASH

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Signal words: Danger

Precautionary statements: P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
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.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water/.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor//if you feel unwell.
P332+313: If skin irritation occurs: Get medical.
P403+233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of to.

2.3. Other hazards

Other hazards: Buildup of explosive mixtures without sufficient ventilation.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	35.000%

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - REACH registered number(s): 01-2119484651-34

931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	25.000%
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KOHLENWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

927-241-2	64742-82-1	-	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 3: H412	15.000%
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1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-	Flam. Liq. 3: H226; STOT SE 3: H336	15.000%
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ETHYL METHYL KETONE

201-159-0	78-93-3	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	5.000%
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KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%
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Contains: aliphatic hydrocarbons >=30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. 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. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m ³	1250 mg/m ³	-	-

1-METHOXY-2-PROPANOL

UK	375 mg/m ³	560 mg/m ³	-	-
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ETHYL METHYL KETONE

UK	600 mg/m ³	899 mg/m ³	-	-
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KOHLENDIOXID

EU	9100 mg/m ³	-	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term filter device: Filter A/P2 Not necessary if room is well-ventilated.

Hand protection: Protective gloves. Nitrile gloves.

Eye protection: Tightly fitting safety goggles.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Boiling point/range°C: Not applicable.

Flammability limits %: lower: 0,8 Vol %

Flash point°C: -26°C

Vapour pressure: at 20°C: 6400hPa

pH: Not applicable.

Melting point/range°C: Undetermined.

upper: 20,0 Vol %

Autoflammability°C: >200 °C

Relative density: Not determined.

VOC g/l: 96,40 %

9.2. Other information

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

KOHLWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200	mg/kg
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[cont...]

SAFETY DATA SHEET

SPRAYWASH

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ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic for fish Also poisonous for fish and plankton in water bodies. Toxic to aquatic organisms.

Section 13: Disposal considerations

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to official regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: Aerosols, environmentally hazardous
(KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

Packing group: entfällt

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code: SG69

Tunnel code: D

Transport category: 2

IMDG seg. group: LQ: 1L; EQ E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category:

E2 Hazardous to the Aquatic Environment

P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t.

[cont...]

SAFETY DATA SHEET

SPRAYWASH

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15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H229: Pressurised container: May burst if heated

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



SAFETY DATA SHEET

LABEL OFF

Page: 1

Compilation date: 22.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: LABEL OFF

Product code: 761.400.000

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

Use of substance / mixture: Cleaning agent / Cleaner

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Deutschland

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Chronic 2: H411; Flam. Aerosol 1: H222; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H336; Asp. Tox. 1: H304; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic to aquatic life with long lasting effects. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H411: Toxic to aquatic life with long lasting effects.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H304: May be fatal if swallowed and enters airways.

[cont...]

SAFETY DATA SHEET

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Hazard pictograms: GHS02: Flame
GHS09: Environmental
GHS07: Exclamation mark



Signal words: Danger

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.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P333+313: If skin irritation or rash occurs: Get medical advice/attention.
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501: Dispose of to.

2.3. Other hazards

Other hazards: Buildup of explosive mixtures without sufficient ventilation.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - REACH registered number(s): 01-2119484651-34

EINECS	CAS	PBT / WEL	CLP Classification	Percent
931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	60.000%

ORANGENTERPENE - REACH registered number(s): 01-2119493353-35

232-433-8	8028-48-6	-	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317	20.000%
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[cont...]

SAFETY DATA SHEET

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KOHLLENWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

927-241-2	64742-82-1	-	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 3: H412	15.000%
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KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Water spray. Dry chemical powder. Fight Larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

[cont...]

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6.2. Environmental precautions

Environmental precautions: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Do not allow product to reach sewage system or any water course.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. 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. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

KOHLENDIOXID

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	9100 mg/m ³	-	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

[cont...]

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Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. Not necessary if room is well-ventilated.

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile gloves. Recommended thickness of the material: $\geq 0,4\text{mm}$ 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Safety glasses.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Boiling point/range°C: Not applicable.

Flammability limits %: lower: 0,7 Vol%

Flash point°C: -26°C

Vapour pressure: at 20°C : 6800 hPa

pH: Not applicable.

Melting point/range°C: Undetermined.

upper: 7,4 Vol%

Autoflammability°C: $>200^{\circ}\text{C}$

Relative density: Not determined.

VOC g/l: 96,00 %

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C : $0,05\text{g/cm}^3$

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

[cont...]

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10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

ORANGENTERPENE

DERMAL	RBT	LC50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

KOHLENWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

[cont...]

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Hazardous ingredients:

KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

ORANGENTERPENE

DAPHNIA	48H EC50	0,67	mg/l
Pimephales promelas	96H LC50	0,7	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic for fish Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to official regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

[cont...]

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14.2. UN proper shipping name

Shipping name: Aerosols, environmentally hazardous
(KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN; ORANGENTERPENE)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

Packing group: void

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code: SG69

Tunnel code: D

IMDG seg. group: LQ: 1L; EQ E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category:
E2 Hazardous to the Aquatic Environment
P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H229: Pressurised container: May burst if heated

[cont...]

SAFETY DATA SHEET

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H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



SICHERHEITSDATENBLATT

SPRAYWASH

Seite: 1

Erstellungsdatum: 25.07.2016

Revisionsnummer: 1

Abschnitt 1: Bezeichnung des Stoffs bzw. des Gemischs und des Unternehmens

1.1. Produktidentifikator

Produktbezeichnung: SPRAYWASH

Produktcode: 703.400.000

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Verwendung des Produkts: Reiniger

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Firmenname: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Deutschland

Tel: +41 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Notrufnummer

Notfalltelefon: Deutschland: Vergiftungs-Informations-Zentrale; +49 761 19240

Schweiz: Schweizerisches Toxikologisches Informationszentrum; +41 44 251 51 51

Österreich: Vergiftungsinformationszentrale; +43 1 406 43 43

Abschnitt 2: Mögliche Gefahren

2.1. Einstufung des Stoffs oder Gemischs

Einstufung (CLP): Flam. Aerosol 1: H222; STOT SE 3: H336; Aquatic Chronic 2: H411; Eye Irrit. 2: H319;

Skin Irrit. 2: H315; Asp. Tox. 1: H304; -: H229

Wichtigste schädliche Wirkungen: Extrem entzündbares Aerosol. Behälter steht unter Druck: Kann bei Erwärmung bersten.

Verursacht Hautreizungen. Verursacht schwere Augenreizung. Kann Schläfrigkeit und

Benommenheit verursachen. Giftig für Wasserorganismen, mit langfristiger Wirkung.

2.2. Kennzeichnungselemente

Kennzeichnungselemente:

Gefahrenhinweise: H222: Extrem entzündbares Aerosol.

H229: Behälter steht unter Druck: Kann bei Erwärmung bersten.

H315: Verursacht Hautreizungen.

H319: Verursacht schwere Augenreizung.

H336: Kann Schläfrigkeit und Benommenheit verursachen.

H411: Giftig für Wasserorganismen, mit langfristiger Wirkung.

Gefahrenpiktogramme: GHS02: Flamme

GHS07: Ausrufezeichen

GHS09: Umwelt

[Fort.]

SICHERHEITSDATENBLATT

SPRAYWASH

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Signalwörter: Gefahr

Sicherheitshinweise: P101: Ist ärztlicher Rat erforderlich, Verpackung oder Kennzeichnungsetikett bereithalten.

P102: Darf nicht in die Hände von Kindern gelangen.

P103: Vor Gebrauch Kennzeichnungsetikett lesen.

P210: Von Hitze, heißen Oberflächen, Funken, offenen Flammen sowie anderen Zündquellenarten fernhalten. Nicht rauchen.

P211: Nicht gegen offene Flamme oder andere Zündquelle sprühen.

P251: Nicht durchstechen oder verbrennen, auch nicht nach Gebrauch.

P271: Nur im Freien oder in gut belüfteten Räumen verwenden.

P273: Freisetzung in die Umwelt vermeiden.

P280: Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.

P302+352: BEI BERÜHRUNG MIT DER HAUT: Mit viel Wasser/ waschen.

P304+340: BEI EINATMEN: Die Person an die frische Luft bringen und für ungehinderte Atmung sorgen.

P305+351+338: BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

P312: Bei Unwohlsein GIFTINFORMATIONSZENTRUM/Arzt//anrufen.

P332+313: Bei Hautreizung:.

P403+233: Behälter dicht verschlossen an einem gut belüfteten Ort aufbewahren.

P405: Unter Verschluss aufbewahren.

P501: Entsorgung Inhalt/Behälter gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften zuführen.

2.3. Sonstige Gefahren

PBT: Dieser Stoff wird nicht als PBT/vPvB-Stoff identifiziert.

Abschnitt 3: Zusammensetzung/Angaben zu Bestandteilen

3.2. Gemische

Gefährliche Bestandteile:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	Einstufung (CLP)	Prozent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	35.000%

[Fort.]

SICHERHEITSDATENBLATT

SPRAYWASH

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KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - Registrierte Nr. REACH: 01-2119484651-34

931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	25.000%
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KOHLENWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

927-241-2	64742-82-1	-	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 3: H412	15.000%
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1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-	Flam. Liq. 3: H226; STOT SE 3: H336	15.000%
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BUTANON

201-159-0	78-93-3	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	5.000%
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KOHLENDIOXID

204-696-9	124-38-9	Stoff mit einem Gemeinschafts AGW.	Press. Gas: H280	5.000%
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Enthält: aliphatische Kohlenwasserstoffe >=30%

Abschnitt 4: Erste-Hilfe-Maßnahmen

4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Hautkontakt: Sofort mit viel Wasser und Seife abwaschen. Sofort sämtliche verschmutzte Kleidung und Schuhe ausziehen, soweit nicht mit der Haut verklebt.

Augenkontakt: Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.

Verschlucken: Bei anhaltenden Beschwerden Arzt konsultieren.

Einatmen: Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Hautkontakt: Verursacht Hautreizungen.

Augenkontakt: Verursacht schwere Augenreizung.

Verschlucken: Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.

Einatmen: Kann Schläfrigkeit und Benommenheit verursachen.

Verzögert auftretende Wirkungen: Mit sofort auftretenden Wirkungen ist nach kurzer Exposition zu rechnen.

4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Sofort- / Sonderbehandlung: Keine weiteren relevanten Informationen verfügbar.

Abschnitt 5: Maßnahmen zur Brandbekämpfung

5.1. Löschmittel

Löschmittel: Kohlendioxid. Löschpulver. Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen.

[Fort.]

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5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Expositionsrisiko: Keine weiteren relevanten Informationen verfügbar.

5.3. Hinweise für die Brandbekämpfung

Besondere Schutzausrüstung: Besondere Schutzausrüstung: Keine besonderen Maßnahmen erforderlich. Weiter Angaben: Kontaminiertes Löschwasser getrennt sammeln, darf nicht in die Kanalisation gelangen.

Abschnitt 6: Maßnahmen bei unbeabsichtigter Freisetzung

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Pers. Schutzmaßnahmen: Schutzausrüstung tragen. Ungeschützte Personen fernhalten.

6.2. Umweltschutzmaßnahmen

Umweltschutzmaßnahmen: Eindringen in Oberflächenwasser, Grundwasser, Kanalisation verhindern. Die Freisetzung in die Umwelt ist zu vermeiden. Wenn sie in die Kanalisation, Oberflächenwasser, Grundwasser gelangt, informieren Sie die zuständigen Behörden.

6.3. Methoden und Material für Rückhaltung und Reinigung

Reinigungsmethoden: Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen. Für ausreichende Lüftung sorgen.

6.4. Verweis auf andere Abschnitte

Verweis auf andere Abschnitte: Siehe Abschnitt 8 des Sicherheitsdatenblatts. Siehe Abschnitt 13 des Sicherheitsdatenblatts. Siehe Abschnitt 7 des Sicherheitsdatenblatts

Abschnitt 7: Handhabung und Lagerung

7.1. Schutzmaßnahmen zur sicheren Handhabung

Hinweise zum sich. Umgang: Für gute Belüftung / Absaugung am Arbeitsplatz sorgen. Zündquellen fernhalten - nicht rauchen. Behälter steht unter Druck. Vor Sonnenbestrahlung und Temperaturen über 50°C (z.B. durch Glühlampen) schützen. Auch nach Gebrauch nicht gewaltsam öffnen oder verbrennen. Nicht gegen Flamme oder auf glühenden Gegenstand sprühen.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Lagerung: Die behördlichen Vorschriften für das Lagern von Druckgaspackungen sind zu beachten. Behälter steht unter Druck Vor Sonnenbestrahlung und Temperaturen über 50°C (z.B. durch Glühlampen) schützen. Auch nach Gebrauch nicht gewaltsam öffnen oder verbrennen. Lagerklasse: 2B

7.3. Spezifische Endanwendungen

Spezifische Endanwendungen Keine relevanten Informationen verfügbar.

Abschnitt 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

[Fort.]

SICHERHEITSDATENBLATT

SPRAYWASH

Seite: 5

8.1. Zu überwachende Parameter

Gefährliche Bestandteile:

PROPAN-2-OL

Expositionsgrenzwerte:

Atembarer Staub

	8 St. AGW	Spitzen	8 St. AGW	Spitzen
DE	500 mg/m ³	1000 mg/m ³	-	-

1-METHOXY-2-PROPANOL

DE	370 mg/m ³	740 mg/m ³	-	-
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BUTANON

DE	600 mg/m ³	600 mg/m ³	-	-
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KOHLENDIOXID

DE	9100 mg/m ³	-	-	-
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DNEL/PNEC

DNEL / PNEC Nicht verfügbar.

8.2. Begrenzung und Überwachung der Exposition

Technische Maßnahmen: Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten. Beschmutzte, getränkte Kleidung sofort ausziehen. Vor den Pausen und bei Arbeitsende Hände waschen. Berührung mit den Augen und der Haut vermeiden.

Atemschutz: Bei kurzzeitiger oder geringer Belastung Atemfiltergerät: bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden. Kurzzeitig Filtergerät: Filter A/P2 Bei guter Raumbelüftung nicht erforderlich.

Handschutz: Schutzhandschuhe. Handschuhe aus Nitril. Empfohlene Materialstärke: $\geq 0,4$ mm Das Handschuhmaterial muss undurchlässig und betändig gegen das Produkt / den Stoff / die Zubereitung sein. Die Auswahl des geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden. Durchdringungszeit des Handschuhmaterials: Wert für die Permeation Level ≤ 4

Augenschutz: Dicht schließende Schutzbrille.

Abschnitt 9: Physikalische und chemische Eigenschaften

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Form: Aerosol

Farbe: Farblos

Geruch: Charakteristischer Geruch

Löslichkeit in Wasser: Nicht bzw. wenig mischbar.

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Siedepunkt / -bereich °C: Nicht anwendbar.	Schmelzpunkt / -bereich °C: Nicht bestimmt.
Explosionsgrenzen %: untere: 0,8 Vol %	obere: 20,0 Vol %
Flammpunkt °C: -26°C	Zündtemperatur °C: >200 °C
Dampfdruck: bei 20°C: 6400hPa	Relative Dichte: Nicht bestimmt
pH: Nicht anwendbar	VOC g/l: 96,40 %

9.2. Sonstige AngabenDE

Zusätzliche Angaben: Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich. Das Produkt ist nicht selbstentzündlich. Dichte bei 20°C: 0,05 g/cm³

Abschnitt 10: Stabilität und Reaktivität

10.1. Reaktivität

Reaktivität Keine weiteren relevanten Informationen verfügbar.

10.2. Chemische Stabilität

Stabilität: Stabil unter Normalbedingungen.

10.3. Möglichkeit gefährlicher Reaktionen

Gefährlicher Reaktionen: Es sind keine gefährlichen Reaktionen bekannt.

10.4. Zu vermeidende Bedingungen

Zu vermeidende Bedingungen: Keine weiteren relevanten Informationen verfügbar.

10.5. Unverträgliche Materialien

Zu vermeidende Stoffe: Keine weiteren relevanten Informationen verfügbar.

10.6. Gefährliche Zersetzungsprodukte

Gefährliche Zersetzungsprod: Keine gefährlichen Zersetzungsprodukte bekannt.

Abschnitt 11: Toxikologische Angaben

11.1. Angaben zu toxikologischen Wirkungen

Gefährliche Bestandteile:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

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KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

KOHLWASSERSTOFFE, C9-C10, N-ALKANE, ISO-ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

DERMAL	RBT	LD50	>5000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200	mg/kg
ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

Toxizität, Werte: Nicht verfügbar.

Symptome / Aufnahmewege

Hautkontakt: Verursacht Hautreizungen.

Augenkontakt: Verursacht schwere Augenreizung.

Verschlucken: Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.

Einatmen: Kann Schläfrigkeit und Benommenheit verursachen.

Verzögert auftretende Wirkungen: Mit sofort auftretenden Wirkungen ist nach kurzer Exposition zu rechnen.

Abschnitt 12: Umweltbezogene Angaben

12.1. Toxizität

Gefährliche Bestandteile:

KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

12.2. Persistenz und Abbaubarkeit

Persistenz und Abbaubarkeit: Keine weiteren relevanten Informationen verfügbar.

12.3. Bioakkumulationspotenzial

Bioakkumulationspotenzial: Keine weiteren relevanten Informationen verfügbar.

12.4. Mobilität im Boden

Mobilität: Keine weiteren relevanten Informationen verfügbar.

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

PBT Identifizierung: Dieser Stoff wird nicht als PBT/vPvB-Stoff identifiziert.

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12.6. Andere schädliche Wirkungen

Andere schädliche Wirkungen: Giftig für Fische. In Gewässern auch giftig für Fische und Plankton. Giftig für Wasserorganismen.

Abschnitt 13: Hinweise zur Entsorgung

13.1. Verfahren zur Abfallbehandlung

Beseitigungsverfahren: Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.

Abfallschlüssel Nr: 15 01 10

Verpackungsentsorgung: 15 01 04: Verpackung aus Metall Entsorgung gemäß behördlichen Vorschriften.

Anmerkung: Der Anwender wird darauf hingewiesen, daß zusätzliche ergänzende örtliche oder nationale Vorschriften für die Entsorgung bestehen können.

Abschnitt 14: Angaben zum Transport

14.1. UN-Nummer

UN-Nummer: UN1950

14.2. Ordnungsgemäße UN-Versandbezeichnung

Korr. Bezeichn. des Gutes: Druckgaspackungen, Umweltgefährdend
(KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN)

14.3. Transportgefahrenklassen

Transportklasse: 2 (5F+Gase)

14.4. Verpackungsgruppe

Verpackungsgruppe: entfällt

14.5. Umweltgefahren

Umweltgefährlich Ja

Meeresschadstoff: Nein

14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Bes. Vorsichtsmaßnahmen: Achtung: Gase EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code: SG69

Tunnelcode: D

Transportkategorie: 2

IMDG Trennkategorie: LQ: 1L; EQ E0

14.7. Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens 73/78 und gemäß IBC-Code

Transport: Nicht anwendbar.

Abschnitt 15: Rechtsvorschriften

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften

Besondere Vorschriften Richtlinie 2012/18/EU Namentlich aufgeführte gefährliche Stoffe - Anhang 1 Keiner der Inhaltstoffe ist enthalten. Seveso-Kategorie: P3b ENTZÜNDBARE AEROSOLE E2

[Fort.]

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Gewässergefährdend Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 200 t. Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 500 t.

Technische Anleitung Luft: Klasse: NK Anteil m%: 96,4

15.2. Stoffsicherheitsbeurteilung

Stoffsicherheitsbeurteilung Für den Stoff bzw. das Gemisch wurde vom Zulieferer keine chemische Sicherheitsbewertung durchgeführt.

Abschnitt 16: Sonstige Angaben

Sonstige Angaben

Zusätzliche Angaben: Dieses Sicherheitsdatenblatt wurde gemäß Verordnung Nr 2015/830 erstellt.

* gibt Text im SDB an, der sich seit der letzten Revision geändert hat.

Sätze aus Abschnitt 2 and 3: EUH066: Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

H222: Extrem entzündbares Aerosol.

H225: Flüssigkeit und Dampf leicht entzündbar.

H226: Flüssigkeit und Dampf entzündbar.

H229: Behälter steht unter Druck: Kann bei Erwärmung bersten.

H280: Enthält Gas unter Druck; kann bei Erwärmung explodieren.

H304: Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.

H315: Verursacht Hautreizungen.

H319: Verursacht schwere Augenreizung.

H336: Kann Schläfrigkeit und Benommenheit verursachen.

H411: Giftig für Wasserorganismen, mit langfristiger Wirkung.

H412: Schädlich für Wasserorganismen, mit langfristiger Wirkung.

Haftungsausschlussklausel: Die obige Information ist nach unserem besten Wissen korrekt; es wird jedoch nicht behauptet, daß diese vollständig ist, und sie darf daher nur als Richtlinie betrachtet werden. Die Firma kann nicht für irgendwelche Schäden, die durch den Umgang oder Kontakt mit dem obigen Produkt entstanden sind, verantwortlich gemacht werden.



SAFETY DATA SHEET

CONTACT CLEANER

Page: 1

Compilation date: 07.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: CONTACT CLEANER

Product code: 702.400.000

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

Use of substance / mixture: Cleaning agent / Cleaner

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Germany

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411; Flam. Aerosol 1: H222;
Asp. Tox. 1: H304; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H304: May be fatal if swallowed and enters airways.

Hazard pictograms: GHS02: Flame

GHS09: Environmental

GHS07: Exclamation mark

[cont...]

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Signal words: Danger

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.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P362+364: Take off contaminated clothing and wash it before reuse.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501: Dispose of to.

2.3. Other hazards

Other hazards: Buildup of explosive mixtures without sufficient ventilation.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - REACH registered number(s): 01-2119484651-34

EINECS	CAS	PBT / WEL	CLP Classification	Percent
931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	70.000%

ETHANOL

200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	10.000%
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KOHLENDIOXID

204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: If symptoms persist consult doctor.

[cont...]

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Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. 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. Do not spray onto a naked flame or any incandescent material.

[cont...]

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers.
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. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1920 mg/m ³	-	-	-

KOHLENDIOXID

EU	9100 mg/m ³	-	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term filter device:
Filter AX

Hand protection: Protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile gloves. Recommended thickness of the material: $\geq 0,4\text{mm}$ 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles.

[cont...]

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Viscosity: No data available.

Boiling point/range°C: Not applicable.

Melting point/range°C: Undetermined.

Flammability limits %: lower: 1,0 Vol %

upper: 15,0 Vol %

Flash point°C: -26°C

Autoflammability°C: >200°C

Vapour pressure: at 20°C: 6500hPa

Relative density: Not determined.

pH: Not applicable.

VOC g/l: 95,2 %

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20 °C: 0,04 g/cm³

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

[cont...]

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KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

ETHANOL

IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

[cont...]

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12.6. Other adverse effects

Other adverse effects: Toxic for fish Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to official regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: AEROSOLS, Environmentally Hazardous
(Hydrocarbons, C6, ISOALKANES, <5%N-HEXANE)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

Packing group: void

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Gases EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code: SG69

Tunnel code: D

IMDG seg. group: LQ: 1L; EQ: E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: not applicable

[cont...]

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Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category:
E2 Hazardous to the Aquatic Environment
P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H229: Pressurised container: May burst if heated
H280: Contains gas under pressure; may explode if heated.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

