Slide Pro 400ml

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

1.1. Product identifier

Trade name/designation:

Slide Pro 400ml

Article No.:
T160001

UFI:
YKNJ-578Q-EJ71-SP1V

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

Use of the substance/mixture:
Lubricating varnish

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

Additional information:
The propellant gas is taken into account when determining the classification of the mixture for health and environment.

2.2. Label elements

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

Hazard pictograms:

GHS02
Flame

GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C6, iso-alkanes, <5% n-hexane

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements Prevention	
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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statements Response	
P312	Call a POISON CENTER/doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

Other adverse effects:

The mixture does not contain any substance of very high concern (SVHC) >= 0.1 % published by the European Chemical Agency (ECHA) according to Article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table. The mixture does not meet the criteria applied to PBT and vPvB mixtures, according to Annex XIII of REACH Directive (EC) No 1907/2006. The mixture does not contain any substance >=0.1% that is classified as a substance of very high concern (SVHC) according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 931-254-9 REACH No.: 01-2119484651-34	**Hydrocarbons, C6, iso-alkanes, <5% n-hexane** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315)  Danger	10 – < 25 Vol-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43	**Butanone** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger EUH066	10 – < 25 Vol-%
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	**propan-2-ol** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	10 – < 25 Vol-%
CAS No.: 109-87-5 EC No.: 203-714-2 REACH No.: 01-2119664781-31	**dimethoxymethane** Flam. Liq. 2 (H225)  Danger	10 – < 25 Vol-%
CAS No.: 78-92-2 EC No.: 201-158-5 REACH No.: 01-2119475146-36	**butan-2-ol** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 – < 10 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	**carbon dioxide** Press. Gas (Ref. Liq.) (H281)  Warning	2.5 – 10 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest.
If unconscious but breathing normally, place in recovery position and seek medical advice.
If breathing is irregular or stopped, administer artificial respiration.
Consult a doctor if symptoms persist.

In case of skin contact:
Remove contaminated, saturated clothing immediately.
After contact with skin, wash immediately with plenty of water and soap.
In case of skin reactions, consult a physician.

After eye contact:
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Consult a doctor if symptoms persist.

Following ingestion:
Do not allow anything to be taken by mouth.
If small amounts are ingested (not more than one sip), rinse mouth with water and consult a doctor.
Do NOT induce vomiting. Keep at rest.
Consult a doctor and show him the label.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Water mist, Water with additive AFFF (Aqueous Film Forming Foam), Halon, Foam, ABC-powder, BC-powder, Carbon dioxide
Unsuitable extinguishing media:
Water jet

5.2. Special hazards arising from the substance or mixture
In case of fire, dense black smoke is often produced. Exposure to decomposition products can be harmful to health. Do not inhale smoke.
Hazardous combustion products:
Carbon monoxide, carbon dioxide, Varied hydrocarbons, aldehydes, fluorinated compounds

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information
Flammable.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Follow protective measures in sections 7 and 8. Remove all sources of ignition. Ventilate affected area. Avoid breathing vapours. Avoid contact with eyes and skin. Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders
Personal protection equipment:
Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions
Stop and collect leaks or spills with liquid-binding, non-combustible material, e.g.: Sand, earth, universal binder, diatomaceous earth in drums for disposal of waste. Prevent entry into drains or watercourses.
If the product pollutes watercourses, rivers or sewage systems, inform the competent authorities in accordance with the prescribed procedure. Set up canisters for disposal of waste generated in accordance with applicable regulations (see section 13).

6.3. Methods and material for containment and cleaning up
For cleaning up:
In the event of soil contamination and after collecting the product by absorption with neutral, non-flammable binder, wash the contaminated area with plenty of water.
Preferably clean with a detergent, do not use organic solvents.

6.4. Reference to other sections
See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Precautions for safe handling:
Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes. Ensure good ventilation/extraction at the workplace. Personal protection equipment: see section 8. Take care for the labels and safety data sheets of the chemicals to be used. Do not breathe spray.

Advices on safe handling:
For personal protection, see section 8. Observe label information and occupational health and safety regulations. Do not inhale aerosol. Avoid inhalation of vapours. Carry out any industrial work with possible formation of vapours/mist etc. in closed apparatus. Provide vapour extraction at the source of emission and general room ventilation. In addition, provide suitable respiratory protective equipment for short-term work and emergency interventions. Always collect emissions at source. Do not allow mixture to come into contact with skin and eyes. Store opened packaging carefully closed and upright.

Improper equipment and method of operation:
Smoking, eating and drinking are prohibited in the premises where the mixture is used. Never open packages with pressure.

Fire prevent measures:

Handle in well ventilated areas. Vapours are heavier than air. They can spread on the ground and form explosive mixtures together with air. Prevent the formation of ignitable or explosive vapour-air concentrations. Avoid vapour concentrations above Avoid exposure limits. Do not spray on a flame or glowing object. Do not open by force or burn, even after use. Use the mixture in rooms without open flames or other ignition sources and with protected electrical equipment. Keep container tightly closed when not in use. Keep away from heat sources, sparks or open flames. Do not use tools that can produce sparks. Do not smoke. Prevent access for unauthorised persons.

Advices on general occupational hygiene

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep only in the original container in a cool, well-ventilated place.

Hints on storage assembly:

Keep away from sources of ignition - No smoking.

Further information on storage conditions:

Keep only in the original container in a cool, well-ventilated place. Store away from heat, weather, moisture and frost. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**Butanone** CAS No.: 78-93-3 EC No.: 201-159-0	① 100 ppm (295 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**Butanone** CAS No.: 78-93-3 EC No.: 201-159-0	② 200 ppm (590 mg/m³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	**Butanone** CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (900 mg/m³)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)
MAK (AT)	**dimethoxymethane** CAS No.: 109-87-5 EC No.: 203-714-2	① 1,000 ppm (3,100 mg/m³)
MAK (AT)	**butan-2-ol** CAS No.: 78-92-2 EC No.: 201-158-5	① 50 ppm (150 mg/m³)
MAK (AT)	**butan-2-ol** CAS No.: 78-92-2 EC No.: 201-158-5	② 200 ppm (600 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m³)
MAK (AT)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	② 10,000 ppm (18,000 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
IOELV (EU)	**carbon dioxide** CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9	5,306 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9	1,131 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9	13,964 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Slide Pro 400ml

Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9	1,377 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9	1,301 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	132 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	39 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	22 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	5.7 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	9.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	212 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	52 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects

Slide Pro 400ml

Substance name	DNEL value	① DNEL type ② Exposure route
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	405 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	203 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	15 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, freshwater
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/kg	① PNEC sediment, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	14.577 mg/L	① PNEC aquatic, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.4577 mg/L	① PNEC aquatic, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	10 mg/L	① PNEC sewage treatment plant

Substance name	PNEC Value	① PNEC type
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	13.135 mg/kg	① PNEC sediment, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.313 mg/kg	① PNEC sediment, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	4.654 mg/kg	① PNEC soil
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	47.1 mg/L	① PNEC aquatic, freshwater
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	47.1 mg/L	① PNEC aquatic, marine water
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	761 mg/L	① PNEC sewage treatment plant
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	196.19 mg/kg	① PNEC sediment, freshwater
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	196.19 mg/kg	① PNEC sediment, marine water
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	11.58 mg/kg	① PNEC soil
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5	47.1 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use clean and properly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before reuse. Provide adequate ventilation, especially in enclosed spaces.

8.2.2. Personal protection equipment

Eye/face protection:

Avoid contact with eyes. Use eye protection against liquid splashes. Safety goggles complying with standard EN 166 must be worn at all times during use. In case of increased danger, use a face shield to protect the face. Wearing prescription glasses does not constitute protection. Contact lens wearers are advised to use corrective lenses during work where irritating fumes may be generated. Provide eye shower systems in the premises where the product is used.

Skin protection:

Hand protection:
Use suitable chemical-resistant protective gloves according to standard EN ISO 374-1. Gloves must be chosen according to the use and duration of use in the workplace. Protective gloves must be chosen according to the workplace: other chemicals could be changed, physical protection required (cutting, pricking, thermal protection), dexterity required.
Glove material:
PVC (polyvinyl chloride)
NBR (Nitrile rubber)

Skin protection:
In case of heavy splashing, wear liquid-tight chemical protective clothing (type 3) according to EN 14605/A1 to avoid any skin contact. If there is a risk of splashing, wear chemical protective clothing (type 6) according to EN 13034/A1 to avoid any skin contact. Personnel must wear regularly washed work clothes. After contact with the product, all soiled parts of the body must be washed.

Respiratory protection:
Avoid breathing vapours.
In case of inadequate ventilation wear respiratory protection.
When workers are exposed to concentrations exceeding the exposure limits, they must wear appropriate and approved respiratory protective equipment.
Type of FFP mask:
Wear a disposable half mask with aerosol filtering function according to standard EN 149/A1.
Class:
- FFP1
- FFP2
- FFP3
Gas and steam filter (combi-filter) according to standard EN 14387:
- A1 (brown)
- AX (brown)
Particle filter device (EN 143):
- P1 (white)
- P (white)

Other protection measures:
Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure good ventilation/extraction at the workplace.

8.2.3. Environmental exposure controls
No data available

8.3. Additional information
No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Physical state: Liquid
Colour: white
Odour: not determined
Odour threshold: not determined

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*No data available*	
Melting point	*No data available*	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Flash point	*No data available*	
Evaporation rate	*No data available*	
Auto-ignition temperature	*No data available*	
Upper/lower flammability or explosive limits	*No data available*	
Vapour pressure	*No data available*	
Vapour density	*No data available*	
Density	*No data available*	
Relative density	< 1	
Bulk density	*not applicable*	
Water solubility	partially soluble	
Dynamic viscosity	*No data available*	
Kinematic viscosity	*No data available*	

9.2. Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
At high temperatures, the mixture may release hazardous decomposition products, such as carbon monoxide, carbon dioxide, smoke or nitrogen oxide.

10.4. Conditions to avoid
The operation of devices/work equipment that produce flames or sparks or heat a metal surface (e.g. burners, electric arches, ovens, etc.) is not permitted in the work area/rooms. Avoid: Heating, heat, electrical charge, flames and hot surfaces, frost, ignition sources.

10.5. Incompatible materials
strong acids, Oxidizing agent

10.6. Hazardous decomposition products
Carbon monoxide, Carbon dioxide, Varied hydrocarbons, aldehydes, fluorinated compounds

SECTION 11: Toxicological information

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

Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9
ATE (inhalation, vapour): 259,354 mg/L
LD_{50} oral: ≥5,000 mg/kg (Rat) OECD 401
LD_{50} dermal: ≥5,000 mg/kg (Rabbit) OECD 402
LC_{50} Acute inhalation toxicity (dust/mist): ≥50 mg/L (Rat) OECD 403
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
ATE (inhalation, dust/mist): 34 mg/L
LD_{50} oral: >2,193 mg/kg (Rat) OECD 423
LD_{50} dermal: >5,000 mg/kg (Rabbit) OECD 402
LC_{50} Acute inhalation toxicity (dust/mist): 34 mg/L 4 h (Rat)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L (Rat)
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9
ATE (inhalation, vapour): 259,354 mg/L
LD_{50} oral: ≥5,000 mg/kg (Ratte)
LD_{50} dermal: ≥5,000 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (dust/mist): ≥50 mg/L 4 h (Ratte)

Acute oral toxicity:
No toxicological information is available for the mixture.

Acute dermal toxicity:
No toxicological information is available for the mixture.

Acute inhalation toxicity:
No toxicological information is available for the mixture.

Skin corrosion/irritation:
May cause reversible skin damage such as skin inflammation or redness and scabbing or appearance of oedema as a result of exposure for up to 4 hours.

Serious eye damage/irritation:
May cause reversible effects to the eye, such as eye irritation, which completely resolves in an observation period of 21 days. Splashes in the eyes may cause irritation and reversible damage.

Respiratory or skin sensitisation:
No toxicological information is available for the mixture.

Germ cell mutagenicity:
No toxicological information is available for the mixture.

Carcinogenicity:
No toxicological information is available for the mixture.

Reproductive toxicity:
No toxicological information is available for the mixture.

STOT-single exposure:
Prolonged or repeated contact with the mixture may eliminate the natural greasy film of the skin and therefore cause non-allergic contact dermatitis and penetration of the epidermis. Narcotic effects may occur, such as drowsiness, narcotic effect, decreased attention, loss of reflexes, incoordination and dizziness. They may also manifest as severe headache or nausea and lead to decreased judgement, drowsiness, irritability, fatigue or memory impairment.

STOT-repeated exposure:
Prolonged or repeated contact with the mixture may eliminate the natural greasy film of the skin and therefore cause non-allergic contact dermatitis and penetration of the epidermis. Narcotic effects may occur, such as drowsiness, narcotic effect, decreased attention, loss of reflexes, incoordination and dizziness. They may also manifest as severe headache or nausea and lead to decreased judgement, drowsiness, irritability, fatigue or memory impairment.

Aspiration hazard:
No toxicological information is available for the mixture.

Additional information:
\P:b10f7ed4-e21e-4010-ab71-4f328a49b43f\

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9
LC_{50}: >2 mg/L 4 d (fish)
EC_{50}: 31.9 mg/L 2 d (crustaceans, Daphnia magna)
ErC_{50}: 13.6 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata)
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC_{50}: 2,993 mg/L 4 d (fish, Pimephales promelas) OECD 203
EC_{50}: 308 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
ErC_{50}: 1,972 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata) OECD 201
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: >1,000 mg/L 4 d (fish)
EC_{50}: >100 mg/L (Algae/water plant)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LC_{50}: 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))

Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability

Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9
Biodegradation: Yes, rapidly
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

Abiotic degradation:
No further relevant information available.

Biodegradation:
No further relevant information available.

12.3. Bioaccumulative potential

Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9
Log K_{OW}: 3.6
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C6, iso-alkanes, <5% n-hexane EC No.: 931-254-9
Results of PBT and vPvB assessment: —
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
Results of PBT and vPvB assessment: —
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2
Results of PBT and vPvB assessment: —
butan-2-ol CAS No.: 78-92-2 EC No.: 201-158-5
Results of PBT and vPvB assessment: —
carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
No further relevant information available.

12.7. Other adverse effects
Harmful to aquatic life with long lasting effects.
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

Waste treatment options
Appropriate disposal / Product:
Waste disposal must be carried out without risk to people and the environment, in particular to water, air, soil, fauna and flora. Disposal or recycling in accordance with valid legislation preferably by an authorised

waste collector or a specialist waste management company. Do not contaminate soil or groundwater, do not dispose of waste in the environment.

Appropriate disposal / Package:

Uncleaned packaging: Only dispose of the container when it is empty. Do not remove the label(s) on the container. Return to an authorised disposal company.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS, flammable	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Tunnel restriction code:** (D)	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F	**Special Provisions:** 63 | 190 | 277 | 327 | 344 | 381 | 959 **Limited quantity (LQ):** Siehe SV277 **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D, S-U **Remark:** Stowage Handling: - SW1 SW22	**Special Provisions:** A145 | A167 | A802 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 **Remark:** IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 KG IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 KG

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

The following directives have been taken into account: - Regulation (EC) No 1272/2008 as amended as Regulation (EU) No 2017/776 (ATP 10)

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SVHC	substances of very high concern
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

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

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.