Weld Primer Ultra 500ml

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

1.1. Product identifier

Trade name/designation:

Weld Primer Ultra 500ml

Article No.:
T903500

UFI:
VXGF-JFMT-6V7U-5ADS

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

Use of the substance/mixture:
Aerosol coating

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.	
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
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.	
STOT-repeated exposure *(STOT RE 2)*	H373: May cause damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:

GHS02
Flame

GHS07
Exclamation mark

GHS08
Health hazard

GHS09
Environment

Signal word: Danger

Hazard components for labelling:
acetone; Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%); Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene); xylene

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

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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 mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	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.

Precautionary statements Storage	
P403	Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Additional information:
Contains 0 mass percent flammable components.

2.3. Other hazards

Other adverse effects:

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Active ingredient mixture with propellant gas

Additional information:

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-64-1 EC No.: 200-662-2 Index No.: 606-001-00-8 REACH No.: 01-2119471330-49	**acetone** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger EUH066	25 – < 50 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	**Butane (with < 0,1 % butadiene (203-450-8))** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)  Danger	10 – < 25 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	**propane** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)  Danger	2.5 – < 10 Vol-%
CAS No.: 7779-90-0 EC No.: 231-944-3 Index No.: 030-011-00-6 REACH No.: 01-2119485044-40	**trizinc bis(orthophosphate)** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410)  Warning	2.5 – < 10 Vol-%
EC No.: 920-750-0 REACH No.: 01-2119473851-33	**Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene)** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger	2.5 – < 10 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	**Isobutane (with < 0.1 % butadiene (203-450-8))** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)  Danger	2.5 – < 10 Vol-%
CAS No.: 64742-82-1 EC No.: 919-446-0 REACH No.: 01-2119458049-33	**Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%)** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT RE 1 (H372), STOT SE 3 (H336)  Danger	2.5 – < 10 Vol-%
CAS No.: 1174921-73-3 EC No.: 927-241-2 REACH No.: 01-2119471843-32	**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics** Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336)  Danger	1 – < 2.5 Vol-%
CAS No.: 1330-20-7 EC No.: 215-535-7 REACH No.: 01-2119488216-32	**xylene** Acute Tox. 4 (H312, H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315)  Danger	1 – < 2.5 Vol-%

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-41-4 EC No.: 202-849-4 Index No.: 601-023-00-4 REACH No.: 01-2119489370-35	**ethylbenzene** Acute Tox. 4 (H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373)  Danger	0.1 – < 1 Vol-%
CAS No.: 108-65-6 EC No.: 203-603-9 Index No.: 607-195-00-7 REACH No.: 01-2119475791-29	**2-methoxy-1-methylethyl acetate** Flam. Liq. 3 (H226), STOT SE 3 (H336)  Warning	0.1 – < 1 Vol-%
CAS No.: 1314-13-2 EC No.: 215-222-5 Index No.: 030-013-00-7 REACH No.: 01-2119463881-32	**zinc oxide** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410)  Warning M-factor (acute): 1 M-factor (chronic): 1	≥ 0.1 – < 0.25 Vol-%
CAS No.: 136-52-7 EC No.: 205-250-6 REACH No.: 01-2119524678-29	**cobalt bis(2-ethylhexanoate)** Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319), Repr. 1B (H360F), Skin Sens. 1A (H317)  Danger	< 0.1 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:
Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:
In general, the product is not irritating to skin.

After eye contact:
Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:
Do not induce vomiting, seek medical help immediately.

4.2. Most important symptoms and effects, both acute and delayed
No further relevant information available.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide (CO2), Extinguishing powder, alcohol resistant foam, Water mist
Adapt fire extinguishing measures to the surroundings.

5.2. Special hazards arising from the substance or mixture
No further relevant information available.

5.3. Advice for firefighters
Special protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up
For cleaning up:
Do not wash away with water or aqueous detergents.

Other information:
Provide adequate ventilation.

6.4. Reference to other sections
Further information on proper storage: see section 7.
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:
Ensure good ventilation/extraction at the workplace.

Fire prevent measures:
Do not spray on naked flames or any incandescent material.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
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.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels:
Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:
The official regulations for the storage of pressurised gas packages must be observed.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

Further information on storage conditions:
Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

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)	**acetone** CAS No.: 67-64-1 EC No.: 200-662-2	② 2,000 ppm (4,800 mg/m³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	**acetone** CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m³)
MAK (AT)	**acetone** CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m³)
MAK (AT)	**Butane (with < 0,1 % butadiene (203-450-8))** CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m³)
MAK (AT)	**Butane (with < 0,1 % butadiene (203-450-8))** CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m³)
MAK (AT)	**Isobutane (with < 0.1 % butadiene (203-450-8))** CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	**Isobutane (with < 0.1 % butadiene (203-450-8))** CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m³)
MAK (AT)	**Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%)** CAS No.: 64742-82-1 EC No.: 919-446-0	① 20 mL/m³ ② 40 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)
MAK (AT)	**Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%)** CAS No.: 64742-82-1 EC No.: 919-446-0	① 70 mL/m³ ② 140 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)
MAK (AT) from 25 Sept 2018	**xylene** CAS No.: 1330-20-7 EC No.: 215-535-7	② 100 ppm (442 mg/m³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	**xylene** CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m³) ② 100 ppm (442 mg/m³) ⑤ (may be absorbed through the skin)

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) from 25 Sept 2018	**xylene** CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m³)
MAK (AT)	**ethylbenzene** CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (440 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**ethylbenzene** CAS No.: 100-41-4 EC No.: 202-849-4	② 200 ppm (880 mg/m³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	**ethylbenzene** CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m³) ② 200 ppm (884 mg/m³) ⑤ (may be absorbed through the skin)
MAK (AT)	**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9	② 100 ppm (550 mg/m³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m³) ② 100 ppm (550 mg/m³) ⑤ (may be absorbed through the skin)
MAK (AT)	**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**zinc oxide** CAS No.: 1314-13-2 EC No.: 215-222-5	① 5 mg/m³ ⑤ (alveolengängige Fraktion)

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
acetone CAS No.: 67-64-1 EC No.: 200-662-2	1,210 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	200 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	2,420 mg/m³	① DNEL worker ② Acute - inhalation, local effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	186 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	5 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects

Substance name	DNEL value	① DNEL type ② Exposure route
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	2.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0	2,035 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0	608 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0	699 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	330 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	71 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	44 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	26 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	871 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	185 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	77 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m³	① DNEL Consumer ② Acute - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m³	① DNEL worker ② Acute - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m³	① DNEL Consumer ② Acute - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	212 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	15 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	293 mg/m³	① DNEL worker ② Acute - inhalation, local effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	180 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.6 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	275 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects

Substance name	DNEL value	① DNEL type ② Exposure route
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	33 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	796 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	320 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	36 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	5 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	2.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
acetone CAS No.: 67-64-1 EC No.: 200-662-2	10.6 mg/L	① PNEC aquatic, freshwater
acetone CAS No.: 67-64-1 EC No.: 200-662-2	1.06 mg/L	① PNEC aquatic, marine water
acetone CAS No.: 67-64-1 EC No.: 200-662-2	100 mg/L	① PNEC sewage treatment plant
acetone CAS No.: 67-64-1 EC No.: 200-662-2	30.4 mg/kg	① PNEC sediment, freshwater
acetone CAS No.: 67-64-1 EC No.: 200-662-2	3.04 mg/kg	① PNEC sediment, marine water
acetone CAS No.: 67-64-1 EC No.: 200-662-2	29.5 mg/kg	① PNEC soil
acetone CAS No.: 67-64-1 EC No.: 200-662-2	21 mg/L	① PNEC aquatic, intermittent release
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	0.0061 mg/L	① PNEC aquatic, marine water
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	0.1 mg/L	① PNEC sewage treatment plant

Substance name	PNEC Value	① PNEC type
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	117.8 mg/L	① PNEC sediment, freshwater
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	56.5 mg/L	① PNEC sediment, marine water
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3	35,600 mg/kg	① PNEC soil
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.01 mg/L	① PNEC aquatic, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.37 mg/kg	① PNEC sediment, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	2.68 mg/kg	① PNEC soil
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, intermittent release
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.0635 mg/L	① PNEC aquatic, freshwater
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.0064 mg/L	① PNEC aquatic, marine water
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	100 mg/L	① PNEC sewage treatment plant
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	3.29 mg/L	① PNEC sediment, freshwater
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.329 mg/L	① PNEC sediment, marine water
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	0.29 mg/kg	① PNEC soil
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	6.1 mg/L	① PNEC aquatic, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	52 mg/L	① PNEC sewage treatment plant
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	117 mg/L	① PNEC sediment, freshwater
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	56.5 mg/L	① PNEC sediment, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	35.6 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles (EN-166)

Skin protection:

Hand protection:
The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to the lack of tests, no recommendation can be made on the glove material for the product/preparation/ mixture of chemicals. mixture of chemicals. Selection of glove material considering breakthrough times, permeation rates and degradation.
Wear gloves for protection against chemicals according to EN 374.
Gloves / solvent resistant
Glove material:
The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
NBR (Nitrile rubber)
Recommended material thickness: ≥ 0,5 mm
Permeation time (maximum wear duration):
For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:
Use protective suit. (EN-13034/6)
Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A2/P2

Other protection measures:

General protective and hygienic measures:
Keep away from food, drink and animal feed.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin.
General ventilation.

8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol
Colour: red brown
Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not applicable*		② Mixture is not polar/aprotic.
Initial boiling point and boiling range	-44.5 °C		
Flash point	-97 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	365 °C		
Upper/lower flammability or explosive limits	0.6 – 13 Vol-%		
Vapour pressure	2,100 hPa	20 °C	
Density	0.748 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	Immiscible		
Kinematic viscosity	≤ 20.5 mm²/s	40 °C	

9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.
Solvent content: 80,2%
Solid content: 20,4%

9.2.1. Information with regard to physical hazard classes

Explosives:
Not applicable

Flammable gases:
Not applicable

Aerosols:
Extremely flammable aerosol. Pressurized container: May burst if heated.

Oxidizing gases:
Not applicable

Gases under pressure:
Not applicable

Flammable liquids:
Not applicable

Flammable solids:
Not applicable

Self-reactive substances and mixtures:
Not applicable

Pyrophoric liquids:
Not applicable

Pyrophoric solids:
Not applicable

Self-heating substances and mixtures:
Not applicable

Substances or mixtures which, in contact with water, emit flammable gases:
Not applicable

Oxidizing liquids:
Not applicable

Oxidizing solids:
Not applicable

Organic peroxides:
Not applicable

Corrosive to metals:
Not applicable

Desensitised explosives:
Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition / Conditions to avoid No decomposition when used as directed.

10.3. Possibility of hazardous reactions
No dangerous reactions known.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
No dangerous decomposition products known.

SECTION 11: Toxicological information

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

acetone CAS No.: 67-64-1 EC No.: 200-662-2
ATE (oral): 5,800 mg/kg
ATE (dermal): 20,000 mg/kg
ATE (inhalation, dust/mist): 76 mg/L
LD_{50} oral: 5,800 mg/kg (Rat)
LD_{50} dermal: >7,800 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (dust/mist): 76 mg/L 4 h (Rat)
propane CAS No.: 74-98-6 EC No.: 200-827-9
LD_{50} oral: 5,840 mg/kg (Rat)
LD_{50} dermal: 13,900 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3
LD_{50} oral: 5,000 mg/kg (Rat)
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0
LD_{50} oral: >5,000 mg/kg (Rat)
LD_{50} dermal: >3,100 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): >23.3 mg/L 4 h (Rat)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
LD_{50} oral: >5,000 mg/kg (Rat) OECD 423
LD_{50} dermal: >5,000 mg/kg (Rabbit) OECD 402
LC_{50} Acute inhalation toxicity (vapour): >4,951 mg/L 4 h (Rat)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7
LD_{50} oral: 4,300 mg/kg (Rat)
LD_{50} dermal: 12,126 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (dust/mist): 6,350 mg/L 4 h (Rat)

ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	
LD_{50} oral: 3,500 mg/kg (Rat)	
LD_{50} dermal: 15,354 mg/kg (Rabbit)	
LC_{50} Acute inhalation toxicity (dust/mist): 17.2 mg/L (Rat)	
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9	
LD_{50} oral: >5,000 mg/kg (Mouse) OECD 401	
LD_{50} dermal: >2,000 mg/kg (Rat) OECD 402	
LC_{50} Acute inhalation toxicity (gas): >1,883 ppmV (Rat)	
LC_{50} Acute inhalation toxicity (vapour): 37 mg/L 4 h (Rat)	
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	
LD_{50} oral: >5,000 mg/kg (Rat)	
LD_{50} dermal: >2,000 mg/kg (Rat)	
LC_{50} Acute inhalation toxicity (gas): >5,700 ppmV 4 h (Rat)	
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0	
LD_{50} oral: >2,000 mg/kg (Rat)	
LD_{50} dermal: >5,000 mg/kg (Rabbit)	
LC_{50} Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)	

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

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

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

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

Serious eye damage/irritation:
Causes serious eye irritation.

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

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

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

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

STOT-single exposure:
May cause drowsiness or dizziness.

STOT-repeated exposure:
May cause damage to organs through prolonged or repeated exposure.

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

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

acetone CAS No.: 67-64-1 EC No.: 200-662-2
LC_{50}: 8,300 mg/L 4 d (fish)
LC_{50}: 8,450 mg/L 2 d (crustaceans)
EC_{50}: 7,200 mg/L 4 d (Algae/water plant)
propane CAS No.: 74-98-6 EC No.: 200-827-9
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC_{50}: 49.9 mg/L 4 d (fish)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
EC_{50}: 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia)
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3
LC_{50}: 0.169 mg/L 4 d
EC_{50}: 0.136 mg/L 3 d (Algae/water plant)
NOEC: 0.019 mg/L (Algae/water plant, Pseudokirchneriella subcapitata)
ErC_{50}: 0.14 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0
NOEC: 0.17 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 0.32 mg/L 21 d (crustaceans, Daphnia magna)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
LC_{50}: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle))
LC_{50}: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.182 mg/L 28 d (fish, Oncorhynchus mykiss)
ErC_{50}: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC_{50}: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7
LC_{50}: 8.9 – 16.4 mg/L 4 d (fish, Pimephales promelas)
EC_{50}: 3.2 – 9.5 mg/L 2 d (crustaceans, Daphnia magna)
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4
LC_{50}: 42.3 mg/L 4 d (fish, Pimephales promelas)
EC_{50}: 75 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 63 mg/L (Algae/water plant, Chlorella vulgaris)
NOEC: 0.96 mg/L (crustaceans, Ceriodaphnia dubia)

2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
LC_{50}: <180 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
LC_{50}: 18 – 24 mg/L 4 d (fish, Pimephales promelas (fathead minnow))
EC_{50}: >400 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 10 mg/L (Activated sludge) OECD 204
NOEC: 47.5 mg/L (fish, Oryzias latipes)
NOEC: 100 mg/L (crustaceans, Daphnia magna)
IC_{50}: >25,000 mg/L 4 d (fish, Danio rerio (zebrafish))
ErC_{50}: >85 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 203
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
LC_{50}: 1.1 – 2.5 mg/L 4 d (fish, Oncorhynchus mykiss)
IC_{50}: 1.85 mg/L 4 d (Algae/water plant, Skeletonema costatum)
LC_{50}: 3.31 – 8.062 mg/L 4 d (fish, Brachydanio rerio)
LC_{50}: >320 mg/L 4 d (fish, Lepomis macrochirus)
EC_{50}: 1 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
EC_{50}: 0.412 – 0.83 mg/L 2 d (crustaceans, Ceriodaphnia spec.) U.S. EPA ECOTOX Database
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0
NOEC: 0.097 mg/L 21 d (crustaceans, Daphnia magna)

Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability

acetone CAS No.: 67-64-1 EC No.: 200-662-2
Biodegradation: Yes, rapidly
propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
Biodegradation: Yes, rapidly

Biodegradation:
Not readily biodegradable.

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

acetone CAS No.: 67-64-1 EC No.: 200-662-2
Log K_{OW}: -0.24
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}: 1.09
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
Bioconcentration factor (BCF): 144.3 Species: calculated
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
Log K_{OW}: 1.2
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Log K_{OW}: 2.2
Bioconcentration factor (BCF): 28,960

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

acetone CAS No.: 67-64-1 EC No.: 200-662-2
Results of PBT and vPvB assessment: —
Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment: —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: —
trizinc bis(orthophosphate) CAS No.: 7779-90-0 EC No.: 231-944-3
Results of PBT and vPvB assessment: —
Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic (< 0.1% benzene) EC No.: 920-750-0
Results of PBT and vPvB assessment: —
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
Results of PBT and vPvB assessment: —
xylene CAS No.: 1330-20-7 EC No.: 215-535-7
Results of PBT and vPvB assessment: —
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4
Results of PBT and vPvB assessment: —
2-methoxy-1-methylethyl acetate CAS No.: 108-65-6 EC No.: 203-603-9
Results of PBT and vPvB assessment: —
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Results of PBT and vPvB assessment: —
Hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%) CAS No.: 64742-82-1 EC No.: 919-446-0
Results of PBT and vPvB assessment: —

The product does not meet the PBT/vPvB criteria.

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

12.7. Other adverse effects
Toxic to fish.
Do not allow to enter into surface water or drains.
Drinking water hazard even when small quantities leak into the subsoil.
Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Must not be disposed of together with household waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 14	Ecotoxic

Waste treatment options
Appropriate disposal / Package:
Uncleaned packaging: Dispose of waste according to applicable legislation.

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, ENVIRONMENTALLY HAZARDOUS (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	AEROSOLS, ENVIRONMENTALLY HAZARDOUS (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	AEROSOLS, MARINE POLLUTANT (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	AEROSOLS, flammable (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
		 MARINE POLLUTANT	No data available
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) **Remark:** Attention: Gases	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Remark:** Attention: Gases	**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:** Attention: Gases	**Special Provisions:** A145 | A167 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 **Remark:** Attention: Gases

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:
Directive 2012/18/EU
Named dangerous substances - ANNEX I: None of the ingredients are included.

Restrictions on use:
Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

Other regulations (EU):

Hazard categories:

• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

• E2 Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances:

• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 600.1 Vol-%

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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC_{50}	Inhibition Concentration 50 %
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
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
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.	
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
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.	
STOT-repeated exposure *(STOT RE 2)*	H373: May cause damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic 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	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.