

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 27 Oct 2022

Print date: 6 Feb 2023

Version: 0.7



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REDOCOL Spray Lacquer transparent (silk matt, silk gloss, deep matt, matt, high gloss)

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

1.1. Product identifier

Trade name/designation:

REDOCOL Spray Lacquer transparent (silk matt, silk gloss, deep matt, matt, high gloss)

Article No.:

ST81000

UFI:

27A7-7707-W00Q-DPJV

Additional information:

Aerosol

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

Use of the substance/mixture:

FURNITURE, FLOOR & LEATHER CARE for consumer use

Relevant identified uses:

Sector of uses [SU]

SU 6a: Manufacture of wood and wood products

Product Categories [PC]

PC 9a: Coatings and paints, thinners, paint removers

Article categories [AC]

AC 11: Wood articles: furniture

1.3. Details of the supplier of the safety data sheet

distributor:

Ostermann UK Ltd

Stonebridge Cross Business Park

Unit 104 Pointon Way

WR9 0LW Droitwich

United Kingdom

Telephone: UK +44 (0) 1905 793 550, Ireland +44 (0) 1905 793 552

Telefax: +44 (0) 1905 793 559

E-mail: UK sales.uk@ostermann.eu, Ireland sales.ie@ostermann.eu

Website: www.ostermann.eu

E-mail (competent person): j.bruns@ostermann.eu

1.4. Emergency telephone number

UK: Mr. J. Bruns +44 1905 793 550

IR: Mr. J. Bruns +44 1905 793 552, 24h: +49 30 - 30 68 67 00 (National Poison Inform. Centre Berlin) , UK +44 1905 793 550/ IR +44 (0)1905 793 552 (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
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	
Reproductive toxicity (<i>Repr. 1B</i>)	H360D: May damage the unborn child.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (central nervous system)	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS08

Health hazard

Signal word: Danger

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure. (central nervous system)

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/Personal protection.

Precautionary statements Response	
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/First aider if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures:

35,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

35,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

51,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

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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	16 - < 30 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21-XXXX	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	9 - < 16 Vol-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3	butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	9 - < 16 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	9 - ≤ 16 Vol-%
CAS No.: 108-10-1 EC No.: 203-550-1 Index No.: 606-004-00-4 REACH No.: 01-2119473980-30	4-methylpentan-2-one Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 Acute Toxicity Estimate ATE (inhalation, vapour): 11 mg/L	6 - ≤ 10 Vol-%
CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH No.: 01-2119485493-29-0007	n-butyl acetate Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning EUH066	3 - < 6 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2	isobutane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	3 - ≤ 5 Vol-%
CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0 REACH No.: 01-2119475108-36	2-butoxyethanol Acute Tox. 4 (H332, H302), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning Acute Toxicity Estimate ATE (oral): 1,200 mg/kg	3 - ≤ 5 Vol-%
EC No.: 927-241-2 Index No.: 649-330-00-2 REACH No.: 01-2119471843-32-0000	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics Asp. Tox. 1 (H304), Carc. 1B (H350), Muta. 1B (H340), STOT RE 1 (H372) Danger	0 - ≤ 1 Vol-%
CAS No.: 70657-70-4 EC No.: 274-724-2 Index No.: 607-251-00-0	2-methoxypropyl acetate Flam. Liq. 3 (H226), Repr. 1B (H360D***), STOT SE 3 (H335) 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

General information:

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

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Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

In case of skin contact:

non-irritant. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Serious eye damage/eye irritation, Dizziness, Dizziness.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂).
Fire extinguishers: Fire class B.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire class R12 Combustible.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Pyrolysis products, toxic, carbon black.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Discharge into the environment must be avoided. 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:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Soak up inert absorbent and dispose as waste requiring special attention.

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For cleaning up:

Clean with detergents. Avoid solvent cleaners.

Other information:

Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid contact during pregnancy/while nursing.

Special danger of slipping by leaking/spilling product.

Fire prevent measures:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Environmental precautions:

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Advices on general occupational hygiene

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

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

Requirements for storage rooms and vessels:

AEROSOLS, flammable.

Hints on storage assembly:

Do not store together with: Strong acid, Base.

Storage class (TRGS 510, Germany): 2A – Gases (except aerosol dispensers and lighters)

Further information on storage conditions:

Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Industrial sector specific solutions:

Solvent-based varnishes/wood glazes, aromatics removed

GISCODE:

M-KH02

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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
IE	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m ³) ⑤ IOELV
IOELV (EU)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m ³)
WEL (GB)	acetone CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m ³) ② 1,500 ppm (3,620 mg/m ³)
IE	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
IE from 5 Dec 2011	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm
WEL (GB)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 600 ppm (1,450 mg/m ³) ② 750 ppm (1,810 mg/m ³)
IE	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 20 ppm (83 mg/m ³) ② 50 ppm (208 mg/m ³)
WEL (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	① 50 ppm (208 mg/m ³) ② 100 ppm (416 mg/m ³) ⑤ (may be absorbed through the skin)
IE from 18 May 2021	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³) ⑤ IOELV
IOELV (EU) from 20 Nov 2019	n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m ³) ② 150 ppm (723 mg/m ³)
IE from 21 Aug 2018	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	② 1,000 ppm
WEL (GB) from 17 Jan 2020	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 25 ppm (123 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)

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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
IE	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin) SK, IOELV
IOELV (EU)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BMGV (GB)	4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	20 µmol/L	① 4-methylpentan - 2-one ② urine ③ end of exposure or end of shift
BMGV (GB)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	240 mmol/mol creatinine	① Butoxyacetic acid ② urine ③ end of exposure or end of shift

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/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	200 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	2,420 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	186 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
acetone CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m ³	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

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Substance name	DNEL value	① DNEL type ② Exposure route
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 worker ② Long-term - oral, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	83 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	14.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	208 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	11.8 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	4.2 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	4.2 mg/m ³	① DNEL worker ② Long-term - oral, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	48 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	102.34 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	859.7 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	480 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	98 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	59 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	1,091 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	426 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	246 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	147 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	6.3 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	26.7 mg/kg bw/day	① DNEL worker ② Acute - oral, systemic effects
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	77 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	300 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 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	21 mg/L	① PNEC aquatic, intermittent release
acetone CAS No.: 67-64-1 EC No.: 200-662-2	29.5 mg/kg	① PNEC soil, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater

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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, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/L	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.74 mg/kg	① PNEC sediment, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1 g/kg	① PNEC secondary poisoning
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil, freshwater
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	600 µg/L	① PNEC aquatic, freshwater
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	60 µg/L	① PNEC aquatic, marine water
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	27.5 mg/L	① PNEC sewage treatment plant
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	8.27 mg/kg	① PNEC sediment, freshwater
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	0.83 mg/kg	① PNEC sediment, marine water
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.3 mg/kg	① PNEC soil
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1	1.5 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.018 mg/L	① PNEC aquatic, marine water
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0981 mg/L	① PNEC sediment, marine water

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Substance name	PNEC Value	① PNEC type
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.36 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1	0.0903 mg/L	① PNEC soil, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	8.8 mg/L	① PNEC aquatic, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	880 µg/L	① PNEC aquatic, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	463 mg/L	① PNEC sewage treatment plant
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	34.6 mg/kg	① PNEC sediment, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	3.46 mg/kg	① PNEC sediment, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	2.33 mg/kg	① PNEC soil
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	20 mg/kg	① PNEC secondary poisoning
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	26.4 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. generation/formation of aerosols: Technical ventilation of workplace.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

Tested protective gloves must be worn EN ISO 374

In full contact: Suitable material: Butyl caoutchouc (butyl rubber) >0,7 mm, Breakthrough time: >480 min.

In splash contact: Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber) >0,4 mm, Breakthrough time: >120 min.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Thermal hazards:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Other protection measures:

Wear suitable protective clothing.

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8.2.3. Environmental exposure controls

no restriction.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: by respective labeling.

Odour: Alcohol

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	<i>not determined</i>	
Melting point	<i>not determined</i>	
Freezing point	<i>not determined</i>	
Initial boiling point and boiling range	<i>not determined</i>	
Decomposition temperature	<i>not determined</i>	
Flash point	<i>not applicable</i>	
Evaporation rate	<i>not applicable</i>	
Auto-ignition temperature	<i>not determined</i>	
Upper/lower flammability or explosive limits	<i>not determined</i>	
Vapour pressure	4,200 hPa	
Vapour density	<i>not determined</i>	
Density	<i>not determined</i>	
Relative density	<i>not determined</i>	
Bulk density	<i>not determined</i>	
Water solubility	<i>not determined</i>	
Partition coefficient: n-octanol/water	<i>not determined</i>	
Dynamic viscosity	<i>not determined</i>	
Kinematic viscosity	<i>not determined</i>	
Trocknerextrakt [%]	12 - 15 %	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Combustible, Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidizing agent.

10.4. Conditions to avoid

Strong acid, Base.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

Gases/vapours, toxic. In case of warming: Flammable solvent vapor mixtures are possible. Contains gas under pressure; may explode if heated.

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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
LD₅₀ oral: 5,800 mg/kg (Rat) Journal of Toxicology and Environmental Health. Vol. 15, Pg. 609, 1985.
LD₅₀ dermal: >7,426 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (vapour): 50.1 mg/L (Rat) Am Ind Hyg Assoc J 20: 364-369
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LD₅₀ oral: 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.
LD₅₀ dermal: 6,480 mg/kg (Rabbit) Shell Chemical Company. Vol. MSDS-5390-4,
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1
ATE (inhalation, vapour)¹: 11 mg/L
LD₅₀ oral: >2,000 - ≤5,000 mg/kg (Rat) MSDS Distributor
LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor
LC₅₀ Acute inhalation toxicity (vapour): >10 - ≤20 mg/L 4 h (Rat)
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
LD₅₀ oral: 10,760 mg/kg (Ratte) OECD Prüfrichtlinie 423
LD₅₀ dermal: >14,112 mg/kg (Rabbit) OECD Prüfrichtlinie 402
LC₅₀ Acute inhalation toxicity (dust/mist): 23.4 mg/L 4 h (Rat) OECD Prüfrichtlinie 403
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
ATE (oral)¹: 1,200 mg/kg
LD₅₀ oral: 470 mg/kg (Rat) GESTIS
LD₅₀ dermal: 220 mg/kg (Rabbit) GESTIS
LC₅₀ Acute inhalation toxicity (dust/mist): 2.17 mg/L 4 h (Rat) GESTIS
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
LD₅₀ oral: >15,000 mg/kg (Rat) MSDS Distributor
LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor
LC₅₀ Acute inhalation toxicity (dust/mist): >6.1 mg/L 4 h (Rat) MSDS Distributor
2-methoxypropyl acetate CAS No.: 70657-70-4 EC No.: 274-724-2
LD₅₀ oral: >5,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas): >400 ppmV 6 h (Rabbit)

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

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:

May cause genetic defects.

Carcinogenicity:

May cause cancer. May cause cancer.

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Reproductive toxicity:

May damage the unborn child. 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:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

acetone CAS No.: 67-64-1 EC No.: 200-662-2
LC₅₀ : 4,350 - 11,000 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC₅₀ : 10 - 30,600 mg/L 2 d (crustaceans, Daphnia pulex (water flea)) Cowgill, U.M., and D.P. Milazzo 1991. The Sensitivity of Ceriodaphnia dubia and Daphnia magna to Seven Chemicals Utilizing the Three-Brood Test. Arch. Environ. Contam. Toxicol. 20(2):211-217; Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018)
EC₅₀ : 13,500 - 23,500 mg/L 2 d (crustaceans) Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J. Water Pollut. Control Fed. 52(8):2117-2130; Barera, Y., and W.J. Adams 1983. Resolving Some Practical Questions About Daphnia Acute Toxicity Tests. In: W.E. Bishop (Ed.), Aquatic Toxicology and Hazard Assessment, 6th Symposium, ASTM STP 802, Philadelphia, PA :509-518
EC₅₀ : 7,200 - 7,200 mg/L 4 d (Algae/water plant, Microcystis aeruginosa) Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl. Tech. Inf. Serv., Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC₅₀ : 3,220 - 3,220 mg/L 4 d (fish, Pimephales promelas) Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI :414
EC₅₀ : 5,090 - 5,090 mg/L 2 d (crustaceans) Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J. Water Pollut. Control Fed. 52(8):2117-2130
EC₅₀ : 2,029 mg/L 4 d (Algae/water plant) ECHA
NOEC : 68 mg/L 2 d (crustaceans) ECHA
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1
LC₅₀ : >100 mg/L (fish) MSDS Distributor
LC₅₀ : >100 mg/L (crustaceans) MSDS Distributor
LC₅₀ : ≤100 mg/L (Algae/water plant) MSDS Distributor
EC₅₀ : >100 mg/L (fish) MSDS Distributor
EC₅₀ : >100 mg/L (crustaceans) MSDS Distributor
EC₅₀ : ≤100 mg/L (Algae/water plant) MSDS Distributor
IC₅₀ : >100 mg/L (fish) MSDS Distributor
IC₅₀ : >100 mg/L (crustaceans) MSDS Distributor
IC₅₀ : ≤100 mg/L (Algae/water plant) MSDS Distributor

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n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
LC₅₀ : 18 mg/L 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203
EC₅₀ : 32 - 44 mg/L 2 d (crustaceans, Daphnia magna)
EC₅₀ : 246 - 647.7 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC : 105 - 196 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC : 23.2 mg/L 21 d (crustaceans)
IC₅₀ : 356 mg/L 2 d (Tetrahymena)
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
LC₅₀ : 1,250 - 1,490 mg/L 4 d (fish) GESTIS
EC₅₀ : 1,550 - 1,800 mg/L 2 d (crustaceans) ECHA
EC₅₀ : 623 - 1,840 mg/L 3 d (Algae/water plant) ECHA
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
LC₅₀ : 10 - ≤100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) MSDS Distributor
LC₅₀ : 10 - ≤100 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) MSDS Distributor
LC₅₀ : >100 mg/L (Algae/water plant) MSDS Distributor
LC₅₀ : >1,000 mg/L (Mikroorganismen) MSDS Distributor
LC₅₀ : >10 - <30 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EL 50 SDB BR
EC₅₀ : >22 - <46 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) EL 50 SDB BR
NOEC : <1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOELR SDB BR

Effects in sewage plants:

The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

12.2. Persistence and degradability

acetone CAS No.: 67-64-1 EC No.: 200-662-2
Biodegradation: Yes, rapidly
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1
Biodegradation: Yes, rapidly
n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
Biodegradation: Yes, rapidly
Remark: 83 % (aerob; Expositionsdauer: 28 d)(OECD Prüfrichtlinie 301D)
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
Biodegradation: Yes, rapidly
Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
Biodegradation: Yes, rapidly
Remark: Bioakkumulation potentiell möglich, Schädlich für Fische.

Biodegradation:

Inherently biodegradable. bioaccumulation possible.

12.3. Bioaccumulative potential

acetone CAS No.: 67-64-1 EC No.: 200-662-2
Log K_{ow} : -0.24
Bioconcentration factor (BCF): 3
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Log K_{ow} : 0.3
4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1
Log K_{ow} : 1.31

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n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
--

Log K_{OW} : 2.3

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
--

Log K_{OW} : 0.81

Accumulation / Evaluation:

Inherently biodegradable. bioaccumulation possible.

12.4. Mobility in soil

No data 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: —
--

butanone CAS No.: 78-93-3 EC No.: 201-159-0
--

Results of PBT and vPvB assessment: —
--

4-methylpentan-2-one CAS No.: 108-10-1 EC No.: 203-550-1

Results of PBT and vPvB assessment: —
--

n-butyl acetate CAS No.: 123-86-4 EC No.: 204-658-1
--

Results of PBT and vPvB assessment: —
--

2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0
--

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

Results of PBT and vPvB assessment: —
--

2-methoxypropyl acetate CAS No.: 70657-70-4 EC No.: 274-724-2
--

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 data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances
------------	---

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 1	Explosive
------	-----------

HP 3	Flammable
------	-----------

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
------------	--

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 1	Explosive
------	-----------

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

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Appropriate disposal / Package:

Completely emptied packages can be recycled.





Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.2. Additional information

Return to Distributor..

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 (SP63: flammable) containing substances in Class 6.1, Packing Group II and in Class 6.1, Packing Group III and containing substances in Class 8, Packing Group II and in Class 8, Packing Group III Aerosols (Aerosols , n-Butyl acetate)	AEROSOLS (SP63: flammable) containing substances in Class 6.1, Packing Group II and in Class 6.1, Packing Group III and containing substances in Class 8, Packing Group II and in Class 8, Packing Group III Aerosols (Aerosols , n-Butyl acetate)	AEROSOLS (SP63: flammable) containing substances in Class 6.1, Packing Group II and in Class 6.1, Packing Group III and containing substances in Class 8, Packing Group II and in Class 8, Packing Group III (Aerosols , n-Butyl acetate)	AEROSOLS (SP63: flammable) containing substances in Class 6.1, Packing Group II and in Class 6.1, Packing Group III and containing substances in Class 8, Packing Group II and in Class 8, Packing Group III (Aerosols , n-Butyl acetate)
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 Hazard identification number (Kemler No.): 33 Classification code: 5F Tunnel restriction code: (D) Remark: -	Special Provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Classification code: 5F	Special Provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L	Special Provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments

not determined.

Additional information:

-

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Aerosol Directive (75/324/)

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

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

Volatile organic compounds (VOC) content in percent by weight: 65 Vol-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Regulation 850/2004/EC on persistent organic pollutants (POP)

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

For abbreviations and acronyms, see ECHA: Guidance on information requirements and chemical safety assessment, Chapter R.20 (list of terms and abbreviations).

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
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	
Reproductive toxicity (<i>Repr. 1B</i>)	H360D: May damage the unborn child.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (central nervous system)	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

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.

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Hazard statements	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.