



Revision date: 17 Dec 2019 Version: 1 Print date: 3 Feb 2020

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

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

1.1. Product identifier

Trade name/designation:

RAVENOL Motobike System Cleaner Shot

Article No.:

1390401

UFI:

HJ4Y-EJFE-7PQQ-NQG1

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

Use of the substance/mixture:

Additive

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2

33824 Werther

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Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Contract ID: RAV) , +49 5203 9719 0 (Mo-Do 7.30 Uhr - 16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (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
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	



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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:

Phenols, ethoxylated; xylene; propan-2-ol; acetone

hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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hazard statements for health hazards

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.
H373	May cause damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information: -

Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary Statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/Emergency telephone number.
P331	Do NOT induce vomiting.

Precautionary Statements Storage

P405	Store locked up.
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Precautionary Statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Additional information:

Regulation (EC) No. 648/2004 (Detergents regulation):

Contains: 15 - 30% Hydrocarbons, aliphatic, > 30 % Hydrocarbons, aromatic, < 5 % phenols and halogenated phenols



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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.: 1330-20-7 EC No.: 215-535-7	xylene Acute Tox. 4, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, STOT RE 2, STOT SE 3, Skin Irrit. 2 H226-H304-H312-H315-H319-H332-H335-H373	20 - < 40 Wt %
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336	20 - < 25 Wt %
CAS No.: 67-64-1 EC No.: 200-662-2 REACH No.: 01-2119471330-49	acetone Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336-EUH066	20 - < 25 Wt %
CAS No.: 64742-48-9 EC No.: 919-857-5 REACH No.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Asp. Tox. 1, Flam. Liq. 3, STOT SE 3 H226-H304-H336-EUH066	15 - < 20 Wt %
CAS No.: 64742-47-8 EC No.: 920-134-1 REACH No.: 01-2119480153-44	Hydrocarbons, C9-C11, iso-alkanes, cycloalkanes, <2% aromatics Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 3, STOT SE 3 H226-H304-H336-H411-EUH066	5 - < 10 Wt %
CAS No.: 37205-87-1	Phenols, ethoxylated Acute Tox. 4, Aquatic Chronic 2, Eye Dam. 1 H302-H318-H411	1 - < 5 Wt %
	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (polyetheramine) Aquatic Chronic 2 H411	1 - < 5 Wt %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Never give anything by mouth to an unconscious person or a person with cramps. Remove contaminated, saturated clothing immediately. Remove persons to safety.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact:

Wash with plenty of soap and water.

Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately. Consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

Self-protection of the first aider:

Use personal protection equipment.

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

Headache, Nausea, Dizziness, fatigue, skin irritation
 Frequently or prolonged contact with skin may cause dermal irritation.
 May cause skin and eye irritation.
 Harmful: may cause lung damage if swallowed.

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

Treat symptomatically. Call a POISON CENTER.
 Symptoms can occur only after several hours.
 Aspiration hazard



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂), Extinguishing powder, Water mist, alcohol resistant foam, ABC-powder, Sand.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Do not inhale explosion and combustion gases. Danger of suffocation in case of accumulation in lowlying or closed rooms.

Hazardous combustion products:

Nitrogen oxides (NO_x) Carbon monoxide Carbon dioxide (CO₂)
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Suppress gases/vapours/mists with water spray jet.

Fire class: B

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:

Use personal protection equipment.

Do not breathe dust/fume/gas/mist/vapours/spray.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid contact with eyes and skin.

Protective equipment:

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

Emergency procedures:

Remove all sources of ignition. Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

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

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

- Use only in well-ventilated areas.
- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin, eyes and clothes.

Fire prevent measures:

- Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Measures to prevent aerosol and dust generation:

- See protective measures under point 7 and 8.

Environmental precautions:

- SECTION 6: Accidental release measures

Advices on general occupational hygiene

- Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.
- Remove contaminated, saturated clothing immediately. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

- Keep container tightly closed. Keep locked up and out of reach of children. Keep only in original container. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Packaging materials:

- Keep/Store only in original container.

Requirements for storage rooms and vessels:

- Shafts and sewers must be protected from entry of the product.
- Keep only in the original container in a cool, well-ventilated place.
- Do not store at temperatures above 50°C.
- Take precautionary measures against static discharge.

Hints on storage assembly:

- TRGS 510

Storage class: 3 - Flammable liquids

Further information on storage conditions:

- Observe technical data sheet. Store in a cool dry place.

7.3. Specific end use(s)

Recommendation:

- Observe technical data sheet.

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
BE	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (peut être absorbé par la peau)
CZ	xylene CAS No.: 1330-20-7	① 46 ppm (200 mg/m ³) ② 92 ppm (400 mg/m ³)
NO	xylene CAS No.: 1330-20-7	① 25 ppm (108 mg/m ³) ⑤ (kan absorberes gjennom huden)



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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	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
FI	xylene CAS No.: 1330-20-7	① 50 ppm (220 mg/m ³) ② 100 ppm (440 mg/m ³) ⑤ (kan absorberas genom huden)
LT	xylene CAS No.: 1330-20-7	① 50 ppm (200 mg/m ³) ② 100 ppm (450 mg/m ³)
SK	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³)
MAK (AT)	xylene CAS No.: 1330-20-7	② 100 ppm (442 mg/m ³) ⑤ (max. 4x15 min./Schicht)
DK	xylene CAS No.: 1330-20-7	① 25 ppm (109 mg/m ³) ② 50 ppm (218 mg/m ³) ⑤ (kan optages gennem huden)
RO	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³)
ES	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (puede ser absorbido a través dérmica), (VLB)
EE	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³)
LV	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (var absorbet caur adu)
Alberta (CA)	xylene CAS No.: 1330-20-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
BC (CA)	xylene CAS No.: 1330-20-7	① 100 ppm ② 150 ppm
IOELV (EU)	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)
VLA (FR)	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (peut être absorbé par la peau)
ACGIH (US)	xylene CAS No.: 1330-20-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
OSHA (US)	xylene CAS No.: 1330-20-7	① 100 ppm (435 mg/m ³)
SI	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (računati je treba z možnostjo prodiranja skozi kožo)
WEL (GB)	xylene CAS No.: 1330-20-7	① 50 ppm (220 mg/m ³) ② 100 ppm (441 mg/m ³) ⑤ (may be absorbed through the skin)
TW	xylene CAS No.: 1330-20-7	① 100 ppm (434 mg/m ³)



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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
KR	xylene CAS No.: 1330-20-7	① 100 ppm (435 mg/m ³) ② 150 ppm (655 mg/m ³)
IS	xylene CAS No.: 1330-20-7	① 25 ppm (109 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
CN	xylene CAS No.: 1330-20-7	① 50 mg/m ³ ② 100 mg/m ³
MAK (AT)	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³)
RU	xylene CAS No.: 1330-20-7	① 50 mg/m ³ ③ 150 mg/m ³
HU	xylene CAS No.: 1330-20-7	① 221 mg/m ³ ② 442 mg/m ³ ⑤ (felvehető a bőrön keresztül)
GR	xylene CAS No.: 1330-20-7	① 100 ppm (435 mg/m ³) ② 150 ppm (650 mg/m ³) ⑤ (αναμένετε απορρόφηση από το δέρμα)
NL	xylene CAS No.: 1330-20-7	① 210 mg/m ³ ② 442 mg/m ³ ⑤ (kan door de huid in het lichaam worden opgenomen)
JP	xylene CAS No.: 1330-20-7	① 50 ppm (217 mg/m ³)
DFG (DE)	xylene CAS No.: 1330-20-7	① 50 ppm (220 mg/m ³) ② 100 ppm (440 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
TR	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (cilt yoluyla alınabilir)
MY	xylene CAS No.: 1330-20-7	① 199 ppm (434 mg/m ³)
SE	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (kan absorberas genom huden)
HR	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (mora se uzeti u obzir prodiranje kroz kožu)
BG	xylene CAS No.: 1330-20-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (трябва да се очаква абсорбиране през кожата)
PL	xylene CAS No.: 1330-20-7	① 100 mg/m ³ ② 200 mg/m ³ ⑤ (może przenikać przez skórę do organizmu)
Québec (CA)	xylene CAS No.: 1330-20-7	① 100 ppm (434 mg/m ³) ② 150 ppm (651 mg/m ³)
NIOSH (US)	xylene CAS No.: 1330-20-7	① 100 ppm (435 mg/m ³) ② 150 ppm (655 mg/m ³)
TRGS 900 (DE)	xylene CAS No.: 1330-20-7	① 100 ppm (440 mg/m ³) ② 200 ppm (880 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)



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BE	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
CZ	propan-2-ol CAS No.: 67-63-0	① 203.5 ppm (500 mg/m ³) ② 407 ppm (1,000 mg/m ³)
PL	propan-2-ol CAS No.: 67-63-0	① 900 mg/m ³ ② 1,200 mg/m ³
NO	propan-2-ol CAS No.: 67-63-0	① 100 ppm (245 mg/m ³)
IE	propan-2-ol CAS No.: 67-63-0	① 200 ppm ② 400 ppm
FI	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 250 ppm (620 mg/m ³)
LT	propan-2-ol CAS No.: 67-63-0	① 150 ppm (350 mg/m ³) ② 250 ppm (600 mg/m ³) ⑤
SE	propan-2-ol CAS No.: 67-63-0	① 150 ppm (350 mg/m ³) ③ 250 ppm (600 mg/m ³)
MY	propan-2-ol CAS No.: 67-63-0	① 400 ppm (983 mg/m ³)
SK	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
PT	propan-2-ol CAS No.: 67-63-0	① 200 ppm ② 400 ppm
MAK (AT)	propan-2-ol CAS No.: 67-63-0	② 800 ppm (2,000 mg/m ³) ⑤ (max. 4x15 min./Schicht)
BG	propan-2-ol CAS No.: 67-63-0	① 980 mg/m ³ ② 1,224 mg/m ³
DK	propan-2-ol CAS No.: 67-63-0	① 200 ppm (490 mg/m ³) ② 400 ppm (980 mg/m ³)
HR	propan-2-ol CAS No.: 67-63-0	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
CN	propan-2-ol CAS No.: 67-63-0	① 350 mg/m ³ ② 700 mg/m ³
RO	propan-2-ol CAS No.: 67-63-0	① 81 ppm (200 mg/m ³) ② 203 ppm (500 mg/m ³)
ES	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³) ⑤ VLB, s
EE	propan-2-ol CAS No.: 67-63-0	① 150 ppm (350 mg/m ³) ② 250 ppm (600 mg/m ³)
Alberta (CA)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (492 mg/m ³) ② 400 ppm (984 mg/m ³)
LV	propan-2-ol CAS No.: 67-63-0	① 350 mg/m ³ ② 600 mg/m ³
BC (CA)	propan-2-ol CAS No.: 67-63-0	① 200 ppm ② 400 ppm
JP	propan-2-ol CAS No.: 67-63-0	③ 400 ppm (980 mg/m ³)



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VLA (FR)	propan-2-ol CAS No.: 67-63-0	② 400 ppm (980 mg/m ³)
MAK (AT)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³)
SI	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
WEL (GB)	propan-2-ol CAS No.: 67-63-0	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
TW	propan-2-ol CAS No.: 67-63-0	① 400 ppm (983 mg/m ³)
KR	propan-2-ol CAS No.: 67-63-0	① 200 ppm (480 mg/m ³) ② 400 ppm (980 mg/m ³)
IS	propan-2-ol CAS No.: 67-63-0	① 200 ppm (490 mg/m ³) ⑤ (efnið getur auðveldlega borist inn í líkamann gegnum húð)
CH	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
HU	propan-2-ol CAS No.: 67-63-0	① 500 mg/m ³ ② 2,000 mg/m ³ ⑤ (felvehető a bőrön keresztül)
RU	propan-2-ol CAS No.: 67-63-0	① 10 mg/m ³ ③ 50 mg/m ³
GR	propan-2-ol CAS No.: 67-63-0	① 400 ppm (980 mg/m ³) ② 500 ppm (1,225 mg/m ³)
Québec (CA)	propan-2-ol CAS No.: 67-63-0	① 400 ppm (985 mg/m ³) ② 500 ppm (1,230 mg/m ³)
OSHA (US)	propan-2-ol CAS No.: 67-63-0	① 400 ppm (980 mg/m ³)
NIOSH (US)	propan-2-ol CAS No.: 67-63-0	① 400 ppm (980 mg/m ³) ② 500 ppm (1,225 mg/m ³)
ACGIH (US)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (492 mg/m ³) ② 400 ppm (984 mg/m ³)
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
CH	acetone CAS No.: 67-64-1	① 500 ppm (1,200 mg/m ³) ② 1,000 ppm (2,400 mg/m ³)
MAK (AT)	acetone CAS No.: 67-64-1	② 2,000 ppm (4,800 mg/m ³) ⑤ (max. 4x15 min./Schicht)
BE	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,000 ppm (2,420 mg/m ³)
CZ	acetone CAS No.: 67-64-1	① 336.8 ppm (800 mg/m ³) ② 631.5 ppm (1,500 mg/m ³)
PL	acetone CAS No.: 67-64-1	① 600 mg/m ³ ② 1,800 mg/m ³
NO	acetone CAS No.: 67-64-1	① 125 ppm (295 mg/m ³)
IE	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
FI	acetone CAS No.: 67-64-1	① 500 ppm (1,200 mg/m ³) ② 630 ppm (1,500 mg/m ³)



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LT	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,000 ppm (2,420 mg/m ³) ⑤
SE	acetone CAS No.: 67-64-1	① 250 ppm (600 mg/m ³) ③ 500 ppm (1,200 mg/m ³)
SK	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
DK	acetone CAS No.: 67-64-1	① 250 ppm (600 mg/m ³) ② 500 ppm (1,200 mg/m ³)
BG	acetone CAS No.: 67-64-1	① 600 mg/m ³ ② 1,400 mg/m ³
HR	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
RO	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
EE	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
LV	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
Alberta (CA)	acetone CAS No.: 67-64-1	① 500 ppm (1,200 mg/m ³) ② 750 ppm (1,800 mg/m ³)
ES	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 750 ppm (1,810 mg/m ³)
BC (CA)	acetone CAS No.: 67-64-1	① 250 ppm ② 500 ppm
IOELV (EU)	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
JP	acetone CAS No.: 67-64-1	① 200 ppm (470 mg/m ³)
MAK (AT)	acetone CAS No.: 67-64-1	① 500 ppm (1,200 mg/m ³)
VRC (FR)	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,000 ppm (2,420 mg/m ³)
WEL (GB)	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,500 ppm (3,620 mg/m ³)
CN	acetone CAS No.: 67-64-1	① 300 mg/m ³ ② 450 mg/m ³
SI	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³) ② 1,000 ppm (2,420 mg/m ³)
TW	acetone CAS No.: 67-64-1	① 200 ppm (475 mg/m ³)
KR	acetone CAS No.: 67-64-1	① 500 ppm (1,188 mg/m ³) ② 750 ppm (1,782 mg/m ³)
IS	acetone CAS No.: 67-64-1	① 250 ppm (600 mg/m ³)
HU	acetone CAS No.: 67-64-1	① 1,210 mg/m ³ ② 2,420 mg/m ³
RU	acetone CAS No.: 67-64-1	① 200 mg/m ³ ③ 800 mg/m ³
GR	acetone CAS No.: 67-64-1	① 1,780 mg/m ³ ② 3,560 mg/m ³



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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
NL	acetone CAS No.: 67-64-1	① 1,210 mg/m ³ ② 2,420 mg/m ³
Ontario (CA)	acetone CAS No.: 67-64-1	① 250 ppm ② 500 ppm
TR	acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
OSHA (US)	acetone CAS No.: 67-64-1	① 1,000 ppm (2,400 mg/m ³)
NIOSH (US)	acetone CAS No.: 67-64-1	① 250 ppm (590 mg/m ³)
ACGIH (US)	acetone CAS No.: 67-64-1	① 250 ppm ② 500 ppm
MY	acetone CAS No.: 67-64-1	① 500 ppm (1,187 mg/m ³)
Québec (CA)	acetone CAS No.: 67-64-1	① 500 ppm (1,190 mg/m ³) ② 1,000 ppm (2,380 mg/m ³)
TRGS 900 (DE)	acetone CAS No.: 67-64-1	① 500 ppm (1,200 mg/m ³) ② 1,000 ppm (2,400 mg/m ³)
PL	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 300 mg/m ³ ② 900 mg/m ³
VLA (FR)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 1,000 mg/m ³ ② 1,500 mg/m ³ ⑤ (hydrocarbures C9-C12)
DFG (DE)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³)
NO	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 50 ppm (275 mg/m ³) ⑤ (White Spirit (aromatinnhold < 22 %))
CH	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³) ⑤ (Naphtha, mit Wasserstoff behandelte, schwere)
MAK (AT)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 200 mL/m ³ ② 400 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von weniger als 25 %)
MAK (AT)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 170 mL/m ³ ② 340 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von 25 % oder mehr)
WEL (GB)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 1,200 mg/m ³ ⑤ (> or = C7, Normal and branched chain alkanes)



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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
WEL (GB)	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 800 mg/m ³ ⑤ (> or = C7, Cycloalkanes)
SI	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9	① 700 mg/m ³
VLA (FR)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 1,000 mg/m ³ ② 1,500 mg/m ³ ⑤ (hydrocarbures C9-C12)
NO	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 50 ppm (275 mg/m ³) ⑤ (White Spirit (aromatinnhold < 22 %))
DFG (DE)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 5 mg/m ³ ② 20 mg/m ³ ⑤ (Aerosol, alveolengängige Fraktion)
BC (CA)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 200 mg/m ³ ⑤ (may be absorbed through the skin)
MAK (AT)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 200 mL/m ³ ② 400 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von weniger als 25 %)
MAK (AT)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 170 mL/m ³ ② 340 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von 25 % oder mehr)
WEL (GB)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 1,200 mg/m ³ ⑤ (> or = C7, Normal and branched chain alkanes)
WEL (GB)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 800 mg/m ³ ⑤ (> or = C7, Cycloalkanes)
DFG (DE)	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 50 ppm (350 mg/m ³) ② 100 ppm (700 mg/m ³) ⑤ (Dampf)
RU	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 100 mg/m ³ ③ 300 mg/m ³
CH	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 50 ppm (350 mg/m ³) ② 100 ppm (700 mg/m ³)
SI	Hydrocarbons, C9-C11, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-47-8	① 700 mg/m ³



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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
TRGS 903 (DE)	xylene CAS No.: 1330-20-7	2,000 mg/L	① Methylhippur-(Tolur)-säure ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	xylene CAS No.: 1330-20-7	1.5 g/g Creatinin	① Methylhippur-(Tolur)-säure ② Urin ③ bei Langzeitexposition, Expositionsende bzw. Schichtende
BAT (CH)	xylene CAS No.: 1330-20-7	1.5 mg/L	① Xylol ② Blut ③ Expositionsende bzw. Schichtende
VLB (ES)	xylene CAS No.: 1330-20-7	1 g/g creatinina	① Ácidos metilhipúricos ② orina ③ fin de exposición o fin de turno
BIO (HU)	xylene CAS No.: 1330-20-7	1,500 mg/g kreatinin	① Metil-hippursavak ② vizelet ③ expozíció vége illetve műszak vége
OEL-B (JP)	xylene CAS No.: 1330-20-7	800 mg/L	① total (o-,m-,p-) methylhippuric acid ② urine ③ at long term exposure, end of exposure or end of shift
BMGV (GB)	xylene CAS No.: 1330-20-7	650 mmol/mol creatinine	① methyl hippuric acid ② urine ③ end of exposure or end of shift
VLBO (RO)	xylene CAS No.: 1330-20-7	3 µg/L	① Acid metilhipuric ② urina ③ finalul expunerii, resp. finalul schimbului
BMH (SK)	xylene CAS No.: 1330-20-7	1.5 mg/L	① Xylén ② krv ③ koniec expozície, príp. koniec zmeny
BMH (SK)	xylene CAS No.: 1330-20-7	2,000 mg/L	① Suma kyselín 2,3,4-metylhippurových ② urín ③ koniec expozície, príp. koniec zmeny
BIO (FI)	xylene CAS No.: 1330-20-7	5 mmol/L	① Virtsan metyylhippuurihappo ② urin ③ slutet på exponeringen eller slutet på skiftet
ACGIH-BEI (US)	xylene CAS No.: 1330-20-7	1.5 g/g creatinine	① Methylhippuric acids ② urine ③ end of exposure or end of shift
BAT (SI)	xylene CAS No.: 1330-20-7	2 g/L	① metilhipurna kislin(vseizomere) ② urin ③ ob koncu delovne izmene
BIO (HR)	xylene CAS No.: 1330-20-7	1.5 mg/L	① ksilen ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	xylene CAS No.: 1330-20-7	1.5 g/g kreatinin	① metilhipurna kiselina ② urin ③ kraj izloženosti, odnosno kraj smjene



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Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BAT (CH)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
VLB (ES)	propan-2-ol CAS No.: 67-63-0	40 mg/L	① acetona ② orina ③ en caso de exposición por largo tiempo, fin de exposición o fin de turno
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
ACGIH-BEI (US)	propan-2-ol CAS No.: 67-63-0	40 mg/L	① Acetone in urine ② urine ③ end of shift at end of workweek
VLBO (RO)	propan-2-ol CAS No.: 67-63-0	50 mg/L	① Alcohol izopropilic ② urina ③ finalul expunerii, resp. finalul schimbului
BAT (SI)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① aceton ② kri ③ ob koncu delovne izmene
BAT (SI)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① aceton ② urin ③ ob koncu delovne izmene
BIO (HR)	propan-2-ol CAS No.: 67-63-0	50 mg/L	① aceton ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	propan-2-ol CAS No.: 67-63-0	50 mg/L	① aceton ② urin ③ kraj izloženosti, odnosno kraj smjene
TRGS 903 (DE)	acetone CAS No.: 67-64-1	80 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
BAT (CH)	acetone CAS No.: 67-64-1	80 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende
VLB (ES)	acetone CAS No.: 67-64-1	50 mg/L	① acetona ② orina ③ fin de exposición o fin de turno
OEL-B (JP)	acetone CAS No.: 67-64-1	40 mg/L	① acetone ② urine ③ end of exposure or end of shift
VLBO (RO)	acetone CAS No.: 67-64-1	50 mg/L	① acetona ② urina ③ finalul expunerii, resp. finalul schimbului



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Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BMH (SK)	acetone CAS No.: 67-64-1	80 mg/L	① acetón ② urín ③ koniec expozície, príp. koniec zmeny
ACGIH-BEI (US)	acetone CAS No.: 67-64-1	25 mg/L	① acetone ② urine ③ end of exposure or end of shift
BIO (HR)	acetone CAS No.: 67-64-1	20 mg/L	① aceton ② krv ③ kraj izloženosti, odnosno kraj smjene
BIO (HR)	acetone CAS No.: 67-64-1	20 mg/g kreatinin	① aceton ② urin ③ kraj izloženosti, odnosno kraj smjene
BAT (SI)	acetone CAS No.: 67-64-1	80 mg/L	① aceton ② urin ③ ob koncu delovne izmene
BIO (BG)	acetone CAS No.: 67-64-1	80 mg/L	① ацетон ② урина ③ край на експозицията, респ. край на раб отната смяна

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0	500 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
propan-2-ol CAS No.: 67-63-0	888 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
acetone CAS No.: 67-64-1	1,210 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics CAS No.: 64742-48-9	1,507 mg/m ³	① DNEL worker ② inhalative, long-term, systemic

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0	140.9 mg/l	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0	140.9 mg/l	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0	2,251 mg/l	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0	552 mg/kg bw/day	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0	552 mg/kg bw/day	① PNEC sediment, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Avoid exposure. Do not breathe gas/fumes/vapour/spray.

8.2.2. Personal protection equipment





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Eye/face protection:

During transfer: Eye glasses with side protection
 DIN-/EN-Norms: DIN EN 166

Skin protection:

Hand protection
 Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), Butyl caoutchouc (butyl rubber)
 Thickness of the glove material: >= 0,4 mm
 Breakthrough time (maximum wearing time) >480 min
 Breakthrough times and swelling properties of the material must be taken into consideration.
 The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
 Tested protective gloves must be worn: EN ISO 374
 Suitable protective clothing: Protective clothing

Respiratory protection:

Usually no personal respirative protection necessary.
 If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device with filter or ventilator filtering device of type: AX

Other protection measures:

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid **Colour:** colourless
Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	110 - 116 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	> -5 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	0.6 - 12 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	817 kg/m ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	The study does not need to be conducted because the substance is known to be insoluble in water.			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

Solubility(ies): organic solvents



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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agent,
 Strong acid
 Alkali (lye), concentrated

10.6. Hazardous decomposition products

Gases/vapours, toxic, Carbon monoxide (CO), Carbon dioxide (CO₂)
 Do not inhale explosion and combustion gases. Danger of suffocation in case of accumulation in lowlying or closed rooms.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
1330-20-7	xylene	LD₅₀ oral: 4,300 mg/kg (Rat) LD₅₀ dermal: 3,200 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 21.7 mg/l 4 h (Rat)
67-63-0	propan-2-ol	LD₅₀ oral: 5,280 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 47.5 mg/l 4 h (Rat)
67-64-1	acetone	LD₅₀ oral: 5,000 mg/kg (Rat) RTECS LD₅₀ dermal: 20,000 mg/kg (Rabbit) ICLUID LC₅₀ Acute inhalation toxicity (gas): 76 mg/l 4 h (Rat)
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >5,000 mg/l 8 h (Rat) LC₅₀ Acute inhalation toxicity (gas): >5 ppmV 4 h (Rat)
64742-47-8	Hydrocarbons, C9-C11, iso-alkanes, cycloalkanes, <2% aromatics	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >5 mg/l 4 h (Rat)



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CAS No.	Substance name	Toxicological information
37205-87-1	Phenols, ethoxylated	LD₅₀ oral: 2,000 mg/kg (Rat)
	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (polyetheramine)	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)

Acute oral toxicity:

May be fatal if swallowed and enters airways.

Acute dermal toxicity:

The product has not been tested.

Acute inhalation toxicity:

ATEmix calculated: 4,795 mg/kg ATE (inhalation aerosol)

Skin corrosion/irritation:

Causes skin irritation. Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/irritation:

slightly irritant but not relevant for classification.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

Observe risk of aspiration if vomiting occurs. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
1330-20-7	xylene	LC₅₀: 26.7 mg/l 4 d (fish, Pimephales promelas (fathead minnow))
67-63-0	propan-2-ol	LC₅₀: >100 mg/l 4 d (fish, Leuciscus idus (golden orfe)) EC₅₀: >100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) EC₅₀: >100 mg/l 3 d (Algae/water plant, Scened esmus subspicatus) LC₅₀: 9,640 mg/l 4 d (fish, Pimephales promelas) EC₅₀: 13,299 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) ErC₅₀: >1,000 mg/l 3 d (Algae/water plant, Des modesmus subspicatus)
67-64-1	acetone	LC₅₀: 5,540 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) EC₅₀: 6,100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC₅₀: >1,000 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀: >1,000 mg/l 3 d (Algae/water plant, Pseu dokirchneriella subcapitata) EC₅₀: 1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))



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CAS No.	Substance name	Toxicological information
64742-47-8	Hydrocarbons, C9-C11, iso-alkanes, cycloalkanes, <2% aromatics	LC₅₀ : >1,000 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀ : 1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
37205-87-1	Phenols, ethoxylated	LC₅₀ : 1 - 10 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) ErC₅₀ : 1 - 10 mg/l 3 d (Algae/water plant, Scene desmus subspicatus)
	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (polyetheramine)	LC₅₀ : 1 - 10 mg/l 4 d (fish) ErC₅₀ : 10 - 100 mg/l 3 d (Algae/water plant)

Aquatic toxicity:

The product has not been tested.

Assessment/classification:

The product has not been tested.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
67-63-0	propan-2-ol	Yes, rapidly	

Additional information:

The product has not been tested.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{ow}	Bioconcentration factor (BCF)
67-63-0	propan-2-ol	0.05	
67-64-1	acetone	-0.24	
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	5	

Accumulation / Evaluation:

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
1330-20-7	xylene	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
67-63-0	propan-2-ol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
67-64-1	acetone	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64742-47-8	Hydrocarbons, C9-C11, iso-alkanes, cycloalkanes, <2% aromatics	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
37205-87-1	Phenols, ethoxylated	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (polyetheramine)	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

12.6. Other adverse effects

The product has not been tested.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

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





Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

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

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (propan-2-ol , Acetone)	FLAMMABLE LIQUID, N.O.S. (propan-2-ol , Acetone)	FLAMMABLE LIQUID, N.O.S. (propan-2-ol , Acetone)	FLAMMABLE LIQUID, N.O.S. (propan-2-ol , Acetone)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 33 Classification code: F1 tunnel restriction code: (D/E) Remark:	Special provisions: Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: F1 Remark:	Special provisions: Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 EmS-No.: F-E; S-E Remark:	Special provisions: Excepted Quantities (EQ): Remark:

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport as bulk according to IBC Code.



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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

Authorisations:

Phenols, ethoxylated

Restrictions on use:

entry 28: Hydrocarbons C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

entry 46a: Phenols, ethoxylated

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Not applicable.

Störfallverordnung

for substances contained in the product:

Hazard categories:

- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

Minimum protective measures according to TRGS 500

Berufsgenossenschaftliche Vorschriften (BGV)

To follow: Berufsgenossenschaftliche Informationen (BGI) 868

Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

[CH] National regulations

Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

Störfallverordnung (StFV)

15.2. Chemical Safety Assessment

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

15.3. Additional information

Tactile warning according to EN/ISO 11683. Child-resistant fastenings (EN/862/ISO 8317).

SECTION 16: Other information

16.1. Indication of changes

No data available



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16.2. Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
 See overview table at www.euphrac.eu

16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive
 1999/45/EEC - Dangerous Preparations Directive
 EC 1907/2006 - REACH Regulation
 1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006
 Regulation (EC) No 1907/2006 (REACH), Annex II
 European Chemicals Agency (ECHA), C & L classification and labeling inventory
 European Chemicals Agency (ECHA), ECHA CHEM Registered substances
 OECD The Global Portal to Information on Chemical Substances (ChemPortal)
 Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
 Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure. (...)
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



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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.