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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 Petrol Clean Extreme

Article No.:

1390207

UFI:

7134-9X46-CN35-RJSM

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

Use of the substance/mixture:

Fuel additive

1.3. Details of the supplier of the safety data sheet

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

Ravensberger Schmierstoffvertrieb GmbH

Produktsicherheit
Jöllenbecker Str. 2
33824 Werther
Germany

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

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

1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +49 700 24 112 112 (Contract ID: RAV) / +1 872 5888271
(Contract ID: RAV)

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
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

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

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger



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Hazard components for labelling:

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%); Hydrocarbons, C10, aromatics, <1% naphthalene

Hazard statements for health hazards	
H304	May be fatal if swallowed and enters airways.

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

Supplemental hazard information	
EUH208	Contains maleic anhydride. May produce an allergic reaction.

Precautionary statements	
P102	Keep out of reach of children.

Precautionary statements Prevention	
P273	Avoid release to the environment.

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.

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

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

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 920-360-0 REACH No.: 01-2119448343-41-0000	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 4,150 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5.28 mg/L	50 - < 100 weight-%
CAS No.: 1189173-42-9 EC No.: 918-811-1 REACH No.: 01-2119463583-34	Hydrocarbons, C10, aromatics, <1% naphthalene Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) = 6,318 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) ≥ 6.193 mg/L	3 - < 7 weight-%
EC No.: 919-284-0 REACH No.: 01-2119463588-24	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 0.59 mg/L ATE (inhalation, dust/mist) > 5.28 mg/L	0 - < 0.4 weight-%



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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 91-20-3 EC No.: 202-049-5	naphthalene Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351) Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,500 mg/kg ATE (inhalation, vapour) > 0.34 mg/L ATE (inhalation, dust/mist) > 0.4 mg/L	0 - < 0.13 weight-%
CAS No.: 108-31-6 EC No.: 203-571-6 Index No.: 607-096-00-9 REACH No.: 01-2119472428-31	maleic anhydride Acute Tox. 4 (H302), Eye Dam. 1 (H318), Resp. Sens. 1 (H334), STOT RE 1 (H372), Skin Corr. 1B (H314), Skin Sens. 1A (H317) Danger EUH071 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.001% Acute Toxicity Estimate ATE (oral) 500 mg/kg	0 - < 0.0002 weight-%

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. 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.

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:

After contact with skin, wash immediately with plenty of water and soap. 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:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Rinse mouth thoroughly with water. 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. No direct artificial respiration to be given by first aider.

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

May be fatal if swallowed and enters airways.
Harmful: may cause lung damage if swallowed.
Contains maleic anhydride. May produce an allergic reaction.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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



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

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 (NOx) Carbon monoxide Carbon dioxide (CO2)
During heating or in case of fire, toxic gases is possible.

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:

Personal protection equipment: see section 8

Emergency procedures:

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection. 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. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids
Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

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.

Wear personal protection equipment (refer to section 8).

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

Fire prevent measures:

Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:

See protective measures under point 7 and 8.

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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. Floors should be impervious, resistant to liquids and easy to clean.

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

Do not store together with: Oxidising agent, Pyrophoric or self-heating substances, Food and feedingstuffs

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

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.



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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
TRGS 900 (DE) from 30 Nov 2017	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 50 mg/m ³ ② 100 mg/m ³ ⑤ (Kohlenwasserstoffe, aromatisch, C9-C14")
VLA (FR)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 150 mg/m ³ ⑤ (Hydrocarbures aromatiques en C9-12, distillation du benzène; Distillat d'huile légère, haut point d'ébullition, vapeur)
NO	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 25 ppm (120 mg/m ³) ⑤ (hvit spirit aromatisk innhold: < 22 %)
CH from 1 Jan 2022	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 100 ppm (525 mg/m ³) ⑤ Messmeth: OSHA
MAK (AT)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 20 mL/m ³ ② 40 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)
MAK (AT)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 70 mL/m ³ ② 140 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)
WEL (GB)	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 500 mg/m ³ ⑤ (hydrocarbons, aromatic)
SI from 4 Dec 2018	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 50 mg/m ³
[LautLieferantK] (NL) from 25 Oct 2021	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 100 mg/m ³
[LautLieferantK] (FR) from 25 Oct 2021	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 100 mg/m ³
[LautLieferantK] (BE) from 25 Oct 2021	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0	① 100 mg/m ³
CH from 1 Jan 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (Dampf und Aerosol; kann über die Haut aufgenommen werden) H C2; Tox: Blut OAW Auge; Messmeth: NIOSH OSHA
BE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (peut être absorbé par la peau) D
CZ from 1 Mar 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 9.4 ppm (50 mg/m ³) ② 18.8 ppm (100 mg/m ³)
PL from 12 Jun 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 20 mg/m ³ ② 50 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra



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NO	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ E
IE from 17 Jan 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ IOELV
HTP (FI)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 1 ppm (5 mg/m ³) ② 2 ppm (10 mg/m ³)
LT	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (kancerogeninis) K
SE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ③ 15 ppm (80 mg/m ³)
NPEL (SK) from 23 Nov 2011	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ K
TRGS 900 (DE) from 23 Jun 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 0.4 ppm (2 mg/m ³) ② 1.6 ppm (8 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) AGS, H, Y, EU, 11, 27
DK	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 20 ppm (100 mg/m ³) ⑤ EK
BG	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³
HR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
ES	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (53 mg/m ³) ② 15 ppm (80 mg/m ³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
RO from 21 Aug 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ C2
EE	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
LV	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
Alberta (CA) from 1 Dec 2021	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³) ⑤ (may be absorbed through the skin) 1
BC (CA) from 1 Jun 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin) Skin; 2B
MY from 1 Jan 2000	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
IOELV (EU)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)



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VLA (FR)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
SI from 4 Dec 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 50 mg/m ³ ⑤ (frakcija ki jo je mogoče vdihniti računati je treba z možnostjo prodiranja skozi kožo) K, Y, EU0
TW	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³)
KR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)
IS	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
CN from 1 Apr 2020	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 75 mg/m ³ ⑤ (#####)
RU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	③ 20 mg/m ³
HU	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ⑤ i
GR from 1 Oct 2016	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NL	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 50 mg/m ³ ② 80 mg/m ³
NL from 1 Jan 2023	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 16 ppm (80 mg/m ³)
MAK (AT)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) III B, H
SI from 4 Dec 2018	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ② 10 ppm ⑤ (računati je treba z možnostjo prodiranja skozi kožo) K, Y, EU0
TR	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
IDLH (US) from 1 Jan 1994	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 250 ppm
Québec (CA) from 1 Apr 2022	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm ⑤ (may be absorbed through the skin)
OSHA (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³)
NIOSH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (50 mg/m ³) ② 15 ppm (75 mg/m ³)



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ACGIH (US)	naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	① 10 ppm (52 mg/m ³) ② 15 ppm (79 mg/m ³) ⑤ (may be absorbed through the skin)
BE from 21 Jan 2020	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.003 ppm (0.01 mg/m ³) ⑤ (vapeur et Aérosol)
CH from 1 Jan 2022	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ② 0.1 ppm (0.4 mg/m ³) ⑤ (Dampf und Aerosol) S SSC; Tox: AW; Messmeth: NIOSH OSHA
CZ from 1 Jan 2024	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 mg/m ³ ② 2 mg/m ³ ⑤ I, S, P
PL	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.5 mg/m ³ ② 1 mg/m ³ ⑤ (może przenikać przez skórę do organizmu) skóra
NO	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.2 ppm (0.8 mg/m ³) ⑤ A
IE from 1 Apr 2016	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.01 ppm ⑤ (inhalable fraction and vapour) Sens
HTP (FI)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.41 mg/m ³) ③ 0.2 ppm (0.81 mg/m ³) ⑤ kattoarvo
TRGS 900 (DE) from 1 May 2018	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.02 ppm (0.081 mg/m ³) ② 0.02 ppm (0.081 mg/m ³) ③ 0.05 ppm (0.203 mg/m ³) ⑤ (Aerosol und Dampf) DFG, Sah, Y, 11
LT	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.3 ppm (1.2 mg/m ³) ② 0.6 ppm (2.5 mg/m ³) ⑤ J
SE from 21 Aug 2018	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.05 ppm (0.2 mg/m ³) ② 0.1 ppm (0.4 mg/m ³)
NPEL (SK) from 10 Feb 2018	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.41 mg/m ³) ⑤ S
MAK (AT)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	② 0.2 ppm (0.8 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert) Sah
MY from 1 Jan 2000	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (10 mg/m ³)
BG	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 mg/m ³
HR from 4 Jan 2021	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.41 mg/m ³) ② 0.2 ppm (0.8 mg/m ³) ⑤ alergen (koža i udisanje)
DK	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ② 0.2 ppm (0.8 mg/m ³)



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RO from 21 Aug 2018	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (1 mg/m ³) ② 0.75 ppm (3 mg/m ³)
EE	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.3 ppm (1.2 mg/m ³) ② 0.6 ppm (2.5 mg/m ³) ⑤ S
Alberta (CA)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³)
LV	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 mg/m ³
BC (CA)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm ⑤ S(D); S(R)
ES from 1 May 2021	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ⑤ (fracción inhalable y vapor) FIV, Sen
VLA (FR) from 3 May 2021	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	② 1 mg/m ³
JP from 1 May 2015	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ③ 0.2 ppm (0.8 mg/m ³)
SI	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.41 mg/m ³) ② 0.1 ppm (0.41 mg/m ³) ⑤ Y
TW	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (1 mg/m ³)
KR	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³)
WEL (GB)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 mg/m ³ ② 3 mg/m ³
IS	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ⑤ O
CN from 1 Jan 2007	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 mg/m ³ ② 2 mg/m ³
RU	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	③ 1 mg/m ³ ⑤ A
HU from 7 Feb 2020	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.08 mg/m ³ ② 0.08 mg/m ³ ⑤ m, sz, R+T
GR from 1 Oct 2016	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (1 mg/m ³)
DFG (DE) from 1 Jul 2019	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.02 ppm (0.081 mg/m ³) ② 0.02 ppm (0.081 mg/m ³) ③ 0.05 ppm (0.2 mg/m ³) ⑤ (Aerosol und Dampf) Sah



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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
IDLH (US) from 1 Jan 1994	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 10 mg/m ³
MAK (AT)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.1 ppm (0.4 mg/m ³) ⑤ Sah
OSHA (US)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (1 mg/m ³)
NIOSH (US)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 1 ppm (0.25 mg/m ³)
ACGIH (US) from 1 Jan 2014	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.003 ppm (0.01 mg/m ³) ⑤ (inhalable fraction and vapor)
Québec (CA)	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.25 ppm (1 mg/m ³)

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
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	25 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

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



Eye/face protection:

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

Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material: ≥ 0,4 mm

Breakthrough 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 solvent-resistant like: EN 465

Respiratory protection:

Usually no personal respiratory 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



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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: yellow

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		
Melting point	<i>No data available</i>		
Freezing point	-33 °C		
Initial boiling point and boiling range	<i>No data available</i>		
Flash point	124 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	<i>No data available</i>		
Upper/lower flammability or explosive limits	<i>No data available</i>		
Vapour pressure	<i>No data available</i>		
Vapour density	<i>No data available</i>		
Density	833 kg/m ³	15 °C	
Bulk density	<i>not applicable</i>		
Water solubility	practically insoluble		
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	2.5 mm ² /s	40 °C	

9.2. Other information

Not applicable

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, Pyrophoric or self-heating substances

Strong acid

Alkali (lye), concentrated

10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

During heating or in case of fire, toxic gases is possible.

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.



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SECTION 11: Toxicological information

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

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) EC No.: 920-360-0
LD₅₀ oral: >4,150 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist): >5.28 mg/L 4 h (Rat)
Hydrocarbons, C10, aromatics, <1% naphthalene CAS No.: 1189173-42-9 EC No.: 918-811-1
LD₅₀ oral: =6,318 mg/kg (rats) OECD TG 401
LD₅₀ dermal: >2,000 mg/kg (rabbits) OECD TG 402
LC₅₀ Acute inhalation toxicity (dust/mist): ≥6.193 mg/L (Rat) OECD TG 403
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0
LD₅₀ oral: >5,000 mg/kg
LD₅₀ dermal: >2,000 mg/kg
LC₅₀ Acute inhalation toxicity (vapour): >0.59 mg/L (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): >5.28 mg/L
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5
LD₅₀ oral: >2,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD₅₀ dermal: >2,500 mg/kg (rat)
LC₅₀ Acute inhalation toxicity (vapour): >0.34 mg/L (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): >0.4 mg/L
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
LD₅₀ oral: 400 mg/kg (Rat)
LD₅₀ dermal: 2,620 mg/kg (Rabbit)

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:

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

Respiratory or skin sensitisation:

Contains maleic anhydride. May produce an allergic reaction.

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:

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:

May be fatal if swallowed and enters airways.

Observe risk of aspiration if vomiting occurs.

For viscosity data, see section 9.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.



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11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information:

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) EC No.: 920-360-0
LC ₅₀ : >1,000 mg/L 4 d (fish)
EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
NOEC: >5,000 mg/L 21 d (fish, fish)
NOEC: >1,400 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))
Hydrocarbons, C10, aromatics, <1% naphthalene CAS No.: 1189173-42-9 EC No.: 918-811-1
LC ₅₀ : ≥2 - ≤5 mg/L 4 d (fish, rainbow trout)
LC ₅₀ : ≥3 - ≤10 mg/L 2 d (crustaceans, Daphnia magna)
LC ₅₀ : ≥2 - ≤5 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : ≥1 - ≤3 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
EC ₅₀ : ≥3 - ≤10 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
NOEC: =0.441 mg/L 28 d (fish, rainbow trout)
NOEC: =0.771 mg/L 21 d (crustaceans, Daphnia magna)
NOEC: ≈1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene EC No.: 919-284-0
EC ₅₀ : >2 mg/L 4 d (fish)
EC ₅₀ : >1.4 mg/L 2 d (crustaceans)
LC ₅₀ : >3.7 mg/L 3 d (Algae/water plant)
LC ₅₀ : 5 mg/L 4 d (fish)
EC ₅₀ : 3 mg/L 3 d (Algae/water plant)
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5
LC ₅₀ : 6.08 mg/L 3 d (fish, Pimephales promelas)
LC ₅₀ : 1.2 mg/L 4 d (fish, Oncorhynchus gorboscha)
LC ₅₀ : 6.35 mg/L 2 d (fish, Pimephales promelas)
EC ₅₀ : 2.16 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.12 mg/L 40 d (fish, Oncorhynchus gorboscha)
LOEC: 0.38 mg/L 40 d (fish, Oncorhynchus gorboscha)
EC ₅₀ : 1.96 mg/L 2 d (crustaceans, Daphnia magna)
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
LC ₅₀ : 75 mg/L 2 d (fish, Lepomis macrochirus) EPA Methods for Acute Toxicity Tests with fish, macroinvertebrates and amphibians (EPA-660/3-75-009)
LC ₅₀ : 75 mg/L 4 d (fish, Lepomis macrochirus) EPA Methods for Acute Toxicity Tests with fish, macroinvertebrates and amphibians (EPA-660/3-75-009)
EC ₅₀ : 74.35 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC ₅₀ : 42.81 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 150 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 17.5 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
LOEC: 30.63 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.



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12.2. Persistence and degradability

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)	EC No.: 920-360-0
Biodegradation: Yes, rapidly	
Remark: OECD 301F 60,7% 28d (ECHA Dossier)	
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene	EC No.: 919-284-0
Biodegradation: —	

12.3. Bioaccumulative potential

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)	EC No.: 920-360-0
Log K_{OW}: 3.5	
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene	EC No.: 919-284-0
Log K_{OW}: ≥ 2.73	
Bioconcentration factor (BCF): = 150.1	
naphthalene	CAS No.: 91-20-3 EC No.: 202-049-5
Log K_{OW}: 3.45	
Bioconcentration factor (BCF): 168	
maleic anhydride	CAS No.: 108-31-6 EC No.: 203-571-6
Log K_{OW}: 2.78	

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

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)	EC No.: 920-360-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
Hydrocarbons, C10, aromatics, <1% naphthalene	CAS No.: 1189173-42-9 EC No.: 918-811-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene	EC No.: 919-284-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
naphthalene	CAS No.: 91-20-3 EC No.: 202-049-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
maleic anhydride	CAS No.: 108-31-6 EC No.: 203-571-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

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

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 14	Ecotoxic

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.



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Other disposal recommendations:

Consult the appropriate local waste disposal expert about waste disposal.

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 number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

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:

Use restriction according to REACH annex XVII, no.: 3

Other regulations (EU):

This product is not assigned to a hazard category.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight: 7,4 % w/w

VOC-CH: 0,062 kg/l (7,4 % w/w)

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

Volatile organic compounds (VOC) content in percent by weight: 7.4 weight-%

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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Not applicable

Störfallverordnung (12. BlmschV)

for substances contained in the product:

This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:

To follow: 5.2.5



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Water hazard class

WGK:

2 - obviously hazardous to water

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 510

TRGS 900

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

To follow: Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195



[CH] National regulations

Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

Störfallverordnung (StFV)



[SK] National regulations

Other regulations, restrictions and prohibition regulations

Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a doplnení niektorých zákonov (chemický zákon).

Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov.

Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých zákonov, v znení neskorších predpisov.

Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1.

Zákon č. 79/2015 Z.z. o odpadoch v znení neskorších predpisov.

Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov.

Zákon NR SR č. 137/2010 Z.z. o ovzduší v znení neskorších predpisov.

Zákon č. 319/2013 Z.z. o pôsobnosti orgánov štátnej správy pre sprístupňovanie biocídnych výrobkov na trh a ich používanie a o zmene a doplnení niektorých zákonov (biocídny zákon).

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

Not applicable

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
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization



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IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
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
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
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

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

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)

Substance name	Type	source of supply
Hydrocarbons, C10, aromatics, <1% naphthalene CAS No.: 1189173-42-9 EC No.: 918-811-1	Classification of the substance or mixture	Source: European Chemicals Agency, http://echa.europa.eu/
naphthalene CAS No.: 91-20-3 EC No.: 202-049-5	Classification of the substance or mixture; LD ₅₀ oral; LD ₅₀ dermal; LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.



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Hazard statements

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes 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.

Supplemental hazard information

EUH071	Corrosive to the respiratory tract.
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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.