

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

1.1 Product identifier

OEL-KLEEN Ölfleckentferner
Article number: 1010178 - 1010219

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company ESV GMBH
Zur oberen Heide
56865 Blankenrath / GERMANY
Phone 06545-911986+7
Fax 06545-911988
Homepage www.oel-kleen.de
E-mail info@oel-kleen.de

Address enquiries to

Technical information

info@oel-kleen.de

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number





Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

	The product is required to be labelled in accordance with regulation CLP.	
Hazard pictograms	   	
Signal word	DANGER	
Contains:	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Hydrocarbons, C6, isoalkanes, <5% n-hexane Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane Ethyl acetate	
Hazard statements	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.	
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapours / spray. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331 Do NOT induce vomiting. P337+P313 If eye irritation persists: Get medical advice / attention. P403+P235 Store in a well-ventilated place. Keep cool.	
Cleaner, 648/2004/CE, contains:	>=30% aliphatic hydrocarbons	

2.3 Other hazards

Human health dangers	Contains no ingredients with endocrine-disrupting properties.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 25	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane EINECS/ELINCS: 926-605-8, Reg-No.: 01-2119486291-36-XXXX GHS/CLP: Flam. Liq. 2: H225 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - STOT SE 3: H336 - - EUH066
10 - < 25	Hydrocarbons, C6, isoalkanes, <5% n-hexane CAS: 64742-49-0, EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
10 - < 25	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
10 - < 25	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
10 - < 25	Ethyl acetate CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
10 - < 25	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - < 3	n-Hexane CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361f - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 SCL [%]: 5: STOT RE 2: H373
< 1	Cyclohexane CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1, Reg-No.: 01-2119463273-41-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.
Remove affected person from danger area, lay down.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
Consult a doctor immediately.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Sand.
Carbon dioxide.
Dry powder.

Extinguishing media that must not
be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Not combusted hydrocarbons.
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.
Do not clean contaminated area with water.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).
Avoid formation of aerosols.
Avoid contact with eyes and skin. Use personal protective equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Ground/bond container and receiving equipment.
Vapours can form an explosive mixture with air.
Ignitable mixtures can be formed in the empty container.
Use explosion-proofed equipment/fittings and non-sparking tools.
Do not smoke.
Take off contaminated clothing and wash before reuse.
Cloths contaminated with product should not be kept in trouser pockets.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

Do not store with oxidizing or self-igniting materials.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (UK)**

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane
CAS: 64742-49-0, EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX
Long-term exposure: 310 ppm, 1000 mg/m ³ , Exxon Mobil
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
EINECS/ELINCS: 926-605-8, Reg-No.: 01-2119486291-36-XXXX
Long-term exposure: 310 ppm, 1000 mg/m ³ , Exxon Mobil
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Long-term exposure: 200 ppm, 730 mg/m ³
Short-term exposure (15-minute): 400 ppm, 1460 mg/m ³
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
Long-term exposure: 1200 mg/m ³
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Long-term exposure: 20 ppm, 72 mg/m ³
Cyclohexane
CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1, Reg-No.: 01-2119463273-41-XXXX
Long-term exposure: 100 ppm, 350 mg/m ³
Short-term exposure (15-minute): 300 ppm, 1050 mg/m ³

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Eight hours: 200 ppm, 734 mg/m ³
Short-term (15-minute): 400 ppm, 1468 mg/m ³
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Eight hours: 20 ppm, 72 mg/m ³
Cyclohexane
CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1, Reg-No.: 01-2119463273-41-XXXX
Eight hours: 200 ppm, 700 mg/m ³

DNEL

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³
general population, inhalative, Long-term - systemic effects, 1131 mg/m ³
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/d
general population, oral, Long-term - systemic effects, 1301 mg/kg bw/d

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 2085 mg/m ³
general population, inhalative, Long-term - systemic effects, 447 mg/m ³
general population, oral, Long-term - systemic effects, 149 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 149 mg/kg bw/d
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³
Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1131 mg/m ³
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day
general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day
n-Hexane, CAS: 110-54-3
Industrial, inhalative, Long-term - systemic effects, 75 mg/m ³
Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 16 mg/m ³
general population, dermal, Long-term - systemic effects, 5,3 mg/kg bw/day
general population, oral, Long-term - systemic effects, 4 mg/kg bw/day
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects, 500 mg/m ³
Industrial, dermal, Long-term - systemic effects, 888 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 89 mg/m ³
general population, dermal, Long-term - systemic effects, 319 mg/kg bw/day
general population, oral, Long-term - systemic effects, 26 mg/kg
Ethyl acetate, CAS: 141-78-6
Industrial, dermal, Long-term - systemic effects, 63 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 734 mg/m ³
Industrial, inhalative, Long-term - local effects, 734 mg/m ³
Industrial, inhalative, Acute - systemic effects, 1468 mg/m ³
Industrial, inhalative, Acute - local effects, 1468 mg/m ³
general population, inhalative, Acute - local effects, 734 mg/m ³
general population, inhalative, Acute - systemic effects, 734 mg/m ³
general population, inhalative, Long-term - local effects, 367 mg/m ³
general population, inhalative, Long-term - systemic effects, 367 mg/m ³
general population, oral, Long-term - systemic effects, 4,5 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 37 mg/kg bw/d
Cyclohexane, CAS: 110-82-7
Industrial, inhalative, Long-term - systemic effects, 700 mg/m ³
Industrial, inhalative, Acute - local effects, 1400 mg/m ³
Industrial, inhalative, Long-term - local effects, 700 mg/m ³
Industrial, dermal, Long-term - systemic effects, 2016 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 1400 mg/m ³
general population, inhalative, Acute - systemic effects, 412 mg/m ³
general population, inhalative, Long-term - systemic effects, 206 mg/m ³
general population, inhalative, Acute - local effects, 412 mg/m ³
general population, inhalative, Long-term - local effects, 206 mg/m ³
general population, dermal, Long-term - systemic effects, 1186 mg/kg bw/day
general population, oral, Long-term - systemic effects, 59,4 mg/kg bw/day
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 2035 mg/m ³
general population, inhalative, Long-term - systemic effects, 608 mg/m ³
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day
general population, oral, Long-term - systemic effects, 699 mg/kg bw/day

PNEC

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
There are no PNEC values established for the substance.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
There are no PNEC values established for the substance.
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
There are no PNEC values established for the substance.
Propan-2-ol, CAS: 67-63-0
freshwater, 140,9 mg/l
seawater, 140,9 mg/l
sediment (freshwater), 552 mg/kg
sediment (seawater), 552 mg/kg
soil, 28 mg/kg
sewage treatment plants (STP), 2251 mg/l
Ethyl acetate, CAS: 141-78-6
freshwater, 0,24 mg/L
seawater, 0,024 mg/L
sediment (freshwater), 1,15 mg/kg sediment dw
sediment (seawater), 0,115 mg/kg sediment dw
soil, 0,148 mg/kg soil dw
oral (food), 0,2 g/kg
sewage treatment plants (STP), 650 mg/L
Cyclohexane, CAS: 110-82-7
freshwater, 44,7 µg/L
seawater, 4,47 µg/L
sewage treatment plants (STP), 3,24 mg/L
sediment (freshwater), 3,6 mg/kg sediment dw
sediment (seawater), 360 µg/kg sediment dw
soil, 694 µg/kg soil dw
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
There are no PNEC values established for the substance.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm; Butyl rubber, >240 min (EN 374-1/-2/-3).
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not breathe vapour/spray.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	See SECTION 7.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	colourless
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	58
Flash point [°C]	< 0
Flammability	not applicable
Lower explosion limit	0,6 Vol. %
Upper explosion limit	12 Vol. %
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	25 kPa (20°C)
Density [g/cm ³]	ca. 0,77 (20°C)
Relative density	No information available.
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	225
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapours can form an explosive mixture with air.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Electrostatic charging.
Strong heating.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

Flammable gases/vapours.

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LD50, oral, Rat, > 5000 mg/kg, OECD 401
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, oral, Rat, > 3000 mg/kg bw
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LD50, oral, Rat, >5000 mg/kg bw
n-Hexane, CAS: 110-54-3
LD50, oral, Rat, 16000 mg/kg bw
Propan-2-ol, CAS: 67-63-0
LD50, oral, Rat, 5840 mg/kg
Ethyl acetate, CAS: 141-78-6
LD50, oral, Rat, 5620 mg/kg bw
Cyclohexane, CAS: 110-82-7
LD50, oral, Rat, > 5000 mg/kg bw, OECD 401
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, oral, Rat, > 5840 mg/kg

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LD50, dermal, Rabbit, > 3350 mg/kg, OECD 402
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, dermal, Rat, 2800 - 3100 mg/kg
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rabbit, >2000 mg/kg bw
n-Hexane, CAS: 110-54-3
LD50, dermal, Rabbit, > 3350 mg/kg 3350 mg/kg bw
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit, 12800 mg/kg
Ethyl acetate, CAS: 141-78-6
LD50, dermal, Rabbit, >20000 mg/kg bw
Cyclohexane, CAS: 110-82-7
LD50, dermal, Rabbit, > 2000 mg/kg bw, OECD 402
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rat, > 2920 mg/kg

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

LC50, inhalative, Rat, > 20 mg/l/4h, OECD 403
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LC50, inhalative, Rat, 23,3 mg/L 4h
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, 73860 ppm (4h)
n-Hexane, CAS: 110-54-3
LC50, inhalative, Rat, 259,4 g/m³, 24h
Propan-2-ol, CAS: 67-63-0
LC50, inhalative, Rat, 30 mg/l/4h
Ethyl acetate, CAS: 141-78-6
LC50, inhalative, Rat, 58 mg/l (8 h)
Cyclohexane, CAS: 110-82-7
LC50, inhalative, Rat, 32,88 mg/L, OECD 403, 4h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, > 25,2 mg/l (4 h)

Serious eye damage/irritation

Irritant

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
Eye, Rabbit, In vivo study, non-irritating
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Eye, Rabbit, In vivo study, non-irritating
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
Eye, Rabbit, non-irritating
n-Hexane, CAS: 110-54-3
Eye, non-irritating
Ethyl acetate, CAS: 141-78-6
Rabbit (eye), irritant
Cyclohexane, CAS: 110-82-7
Eye, Rabbit, OECD 405, non-irritating
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Eye, in vivo, non-irritating

Skin corrosion/irritation

Irritant

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
dermal, Rabbit, In vivo study, irritant
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
dermal, Rabbit, OECD 404, irritant
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
dermal, Rabbit, non-irritating
n-Hexane, CAS: 110-54-3
dermal, irritant
Ethyl acetate, CAS: 141-78-6
dermal, Rabbit, negativ
Cyclohexane, CAS: 110-82-7
dermal, Rabbit, irritant, EU Method B.4,
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
dermal, in vivo, irritant

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
dermal, non-sensitizing
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
dermal, non-sensitizing
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
dermal, non-sensitizing
n-Hexane, CAS: 110-54-3
dermal, non-sensitizing, LLNA Test,
Ethyl acetate, CAS: 141-78-6
dermal, Guinea pig, negativ
Cyclohexane, CAS: 110-82-7
Guinea pig, non-sensitizing, EU Method B.6,
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
dermal, in vivo, non-sensitizing

**Specific target organ toxicity —
single exposure**

Vapours may cause drowsiness and dizziness.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
inhalative, adverse effect observed
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
inhalative, adverse effect observed
Ethyl acetate, CAS: 141-78-6
inhalative, Harmonised classification, STOT SE 3 H336
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
inhalative, adverse effect observed

**Specific target organ toxicity —
repeated exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LOAEC, inhalative, Rat, 10 504 mg/m ³ , negativ
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOAEC, inhalative, Rat, 12470 mg/m ³ , Study, no adverse effect observed
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LOAEC, inhalative, Rat, 10 504 mg/m ³ , negativ
n-Hexane, CAS: 110-54-3
LOAEC, inhalative, mouse, 1760 mg/m ³
Propan-2-ol, CAS: 67-63-0
NOAEC, inhalative, Rat, 5000 ppm
Ethyl acetate, CAS: 141-78-6
NOAEL, oral, Rat, 3600 mg/kg bw/day, no adverse effect observed
Cyclohexane, CAS: 110-82-7
NOAEC, inhalative, mouse, 6880 mg/m ³ , EPA OPPTS 870.3465 EPA OPPTS 870.3465,

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
in vitro, negativ
in vivo, negativ

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
in vitro, negativ
in vivo, negativ
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
OECD 471, negativ
n-Hexane, CAS: 110-54-3
in vitro, negativ
in vivo, negativ
Ethyl acetate, CAS: 141-78-6
in vitro, negativ
Cyclohexane, CAS: 110-82-7
in vitro, negativ
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
in vivo, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 31680 mg/m ³ , no adverse effect observed
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ
n-Hexane, CAS: 110-54-3
NOAEC, inhalative, Rat, 31680 mg/m ³
Cyclohexane, CAS: 110-82-7
NOAEC, inhalative, Rat, 24080 mg/m ³ , OECD 416
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, (systemic): 8117 mg/m ³ , The effects observed are not sufficient for classification.

- Development

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 10560 mg/m ³ , no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOAEC, inhalative, Rat, 1200 ppm (subacute), In vivo study, no adverse effect observed
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ
n-Hexane, CAS: 110-54-3
NOAEC, inhalative, Rat, 31680 mg/m ³
Cyclohexane, CAS: 110-82-7
NOAEC, inhalative, Rat, 24080 mg/m ³ , OECD 416
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, (systemic): 8117 mg/m ³ , The effects observed are not sufficient for classification.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ
n-Hexane, CAS: 110-54-3
NOAEC, inhalative, mouse, 10560 mg/m ³
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
no adverse effect observed

Aspiration hazard

May be fatal if swallowed and enters airways.
Based on the available information, the classification criteria are fulfilled.
Calculation method

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
EL50, (96h), Daphnia magna, 3.0 mg/L
LL50, (96h), Oncorhynchus mykiss, 12 mg/L
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
EC50, (48h), Daphnia magna, 3 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 10 - 30 mg/l
NOEC, (21d), Daphnia magna, 0,17 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, 10 mg/l
LL50, (96h), Oncorhynchus mykiss, > 13,4 mg/l
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
EL50, (48h), Daphnia magna, 17,06 mg/L
n-Hexane, CAS: 110-54-3
EL50, (48h), Invertebrates, 21,85 mg/L
EL50, (72h), Algae, 9,285 mg/L
NOELR, (72h), Algae, 2,077 mg/L
NOELR, (21d), Invertebrates, 4,888 mg/L
NOELR, (28d), Fish, 2,8 mg/L
LL50, (96h), Fish, 12,51 mg/L
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Pimephales promelas, 9640 mg/L
EC50, (48h), Daphnia magna, 13299 mg/L
Ethyl acetate, CAS: 141-78-6
LC50, (96h), Pimephales promelas, 230 mg/l
EC50, (48h), Desmodesmus subspicatus, 5600 mg/L
EC50, (48h), Daphnia magna, 165 mg/L
NOEC, (21d), Daphnia magna, 2,4 mg/L
NOEC, (72h), Desmodesmus subspicatus, >100 mg/L
Cyclohexane, CAS: 110-82-7
EC50, (48h), Invertebrates, 900 - 2400 µg/L
EC50, (72h), Algae, 4,425 mg/L
EL50, (48h), Invertebrates, 4,36 mg/L
EC10, (72h), Algae, 925 µg/L
EC10, (72h), Activated sludge, 6.821 mg/L
EL10, (21d), Invertebrates, 835 µg/L
EL10, (21d), Fish, 447 µg/L
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, (96h), Oncorhynchus mykiss, 11,4 mg/L
EC50, (48h), Daphnia magna, 3 mg/L
NOELR, (28d), Oncorhynchus mykiss, 2,045 mg/L
NOELR, (21d), Daphnia magna, 1 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	EG-Nr. 926-605-8: 83%, 10d EG-Nr. 921-024-6: 83%, 16d EG-Nr. 931-254-9: 83%, 10d CAS 67-63-0: 53%, 5d CAS 110-82-7: 77%, 28d

Substance
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0 (28d), 98%, The product is readily biodegradable.
n-Hexane, CAS: 110-54-3 (28d), 98%, The product is readily biodegradable.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (28d), 98%, OECD 301 F

12.3 Bioaccumulative potential

EG-Nr. 931-254-9: BCF=501,2; Log KOW=3,6 (pH-Wert: 7, 20 °C)
CAS 110-54-3: BCF=501,2; Log KOW=4 (pH-Wert: 7, 20 °C)
CAS 110-82-7: BCF=167; Log KOW=3,44 (pH-Wert: 7, 25 °C)

Substance
n-Hexane, CAS: 110-54-3
BCF, 501,2
log Pow, 4

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

Substance
n-Hexane, CAS: 110-54-3
Koc, 3,34

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

The product is insoluble in water.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

070604*

Contaminated packaging

Contaminated packing should be disposed of as product waste.

Waste no. (recommended)

150104

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information**14.1 UN number or ID number**

Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993

Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993

14.2 UN proper shipping name

Transport by land according to ADR/RID Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated light, Ethyl acetate)

- Classification Code

F1

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)

Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated light, Ethyl acetate)

- Classification Code

F1

- Label



Marine transport in accordance with IMDG

Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated light, Ethyl acetate)

- EMS

F-E, S-E

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA

Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated light, Ethyl acetate)

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3 (N)

Inland navigation (ADN) 3 (N)

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II

14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS

2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH)

According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.

- Annex XVII (REACH)

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 40, 57, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3

TRANSPORT-REGULATIONS

ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

NATIONAL REGULATIONS (UK):

EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

SEVESO III (Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008:

P5c FLAMMABLE LIQUIDS

E2 ENVIRONMENTAL HAZARDS

Annex XVII of the REACH Regulation, restriction 3.

- VOC (2010/75/CE)

90,8 %

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

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

H361f Suspected of damaging fertility.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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