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

Trade name :	SWIN 70-101-6 degreasing agent		
Revision date :	25.01.2023	**Version (Revision) :**	3.0.0 (2.0.0)
Print date :	04.04.2023		

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

1.1 Product identifier

SWIN 70-101-6
degreasing agent (34612)

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

Relevant identified uses

Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

Supplier

SWIN Lacksysteme
Inh. Ludwig Schöne e.K

Street : Boschweg 5

Postal code/City : 48351 Everswinkel

Telephone : +49(0)2582/67613

Telefax : +49(0)258267677

Information contact : info@swinsysteme.de

1.4 Emergency telephone number

Poison Information Center Göttingen (GIZ-Nord) Phone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.
Repr. 2 ; H361d - Reproductive toxicity : Category 2 ; Suspected of damaging the unborn child.
STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.
STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.
Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

Flame (GHS02) · Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0
TOLUENE ; CAS No. : 108-88-3
XYLENE ; CAS No. : 1330-20-7
ETHYLBENZENE ; CAS No. : 100-41-4

Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P260	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use foam to extinguish.

2.3 Other hazards

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

Adverse environmental effects

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

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

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; REACH No. : 01-2119473851-33 ; EC No. : 920-750-0 ; CAS No. : 64742-49-0

Weight fraction : ≥ 50 - < 100 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411 EUH066

TOLUENE ; REACH No. : 01-2119471310-51 ; EC No. : 203-625-9 ; Index No. : 601-021-00-3 ; CAS No. : 108-88-3

Weight fraction : ≥ 20 - < 25 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Repr. 2 ; H361d STOT RE 2 ; H373 Skin Irrit. 2 ; H315 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412

XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7 ; Index No. : 601-022-00-9 ; CAS No. : 1330-20-7

Weight fraction : ≥ 10 - < 20 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

ETHYLBENZENE ; EC No. : 202-849-4 ; Index No. : 601-023-00-4 ; CAS No. : 100-41-4

Weight fraction : ≥ 5 - < 10 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Aquatic Chronic 3 ; H412

PROPAN-2-OL ; REACH No. : 01-2119457558-25 ; EC No. : 200-661-7 ; Index No. : 603-117-00-0 ; CAS No. : 67-63-0

Weight fraction : ≥ 5 - < 10 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

In case of skin contact

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

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.

Following ingestion

Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness Headache Nausea Impairment of vision Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Extinguishing powder Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic Carbon monoxide Carbon dioxide (CO2)

5.3 Advice for firefighters

Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

For non-emergency personnel

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders

Use appropriate respiratory protection. Remove persons to safety. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away. Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols
It is recommended to design all work processes always so that the following is excluded: Inhalation Skin contact Eye contact

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Take precautionary measures against static discharges.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Vapours/aerosols must be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

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

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (TRGS 510) : 3

Further information on storage conditions

Keep container tightly closed. Keep/Store only in original container.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	550 mg/m^3
Version :	29.03.2019

TOLUENE ; CAS No. : 108-88-3

Limit value type (country of origin) :	TRGS 900 (D)

Limit value : 50 ppm / 190 mg/m^3
Peak limitation : 2(II)
Remark : H, Y
Version : 23.06.2022

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 384 mg/m^3
Remark : Skin
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 192 mg/m^3
Remark : Skin
Version : 20.06.2019

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 50 ppm / 220 mg/m^3
Peak limitation : 2(II)
Remark : H
Version : 23.06.2022

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m^3
Remark : Skin
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m^3
Remark : Skin
Version : 20.06.2019

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m^3
Peak limitation : 2(II)
Remark : H, Y
Version : 23.06.2022

Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m^3
Remark : Skin
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m^3
Remark : Skin
Version : 20.06.2019

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 500 mg/m^3
Peak limitation : 2(II)
Remark : Y
Version : 23.06.2022

Biological limit values

TOLUENE ; CAS No. : 108-88-3

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Toluene / Whole blood (B) / after end of exposure (h): 0
Limit value : 600 µg/l
Version : 25.02.2022

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Toluene / Urine (U) / End of exposure or end of shift

Limit value :	75 µg/l
Version :	25.02.2022
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	O-cresol (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts
Limit value :	1,5 mg/l
Version :	25.02.2022

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift
Limit value :	2000 mg/l
Version :	25.02.2022

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Mandelic acid plus phenylglyoxylic acid / Urine (U) / End of exposure or end of shift
Limit value :	250 mg/g Creatinine
Version :	25.02.2022

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Acetone / Whole blood (B) / End of exposure or end of shift
Limit value :	25 mg/l
Version :	25.02.2022
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Acetone / Urine (U) / End of exposure or end of shift
Limit value :	25 mg/l
Version :	25.02.2022

DNEL-/PNEC-values

DNEL/DMEL

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0

Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	773 mg/kg
Assessment factor :	24 h
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	2035 mg/m^3

TOLUENE ; CAS No. : 108-88-3

Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	384 mg/m^3
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	192 mg/m^3
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	384 mg/kg
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term

Limit value :	384 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	192 mg/m³

XYLENE ; CAS No. : 1330-20-7

Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	289 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	221 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	442 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	77 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	180 mg/kg bw/day

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	77 mg/m³

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Limit value :	888 mg/kg bw/day
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Limit value :	500 mg/m³

PNEC

TOLUENE ; CAS No. : 108-88-3

Limit value type :	PNEC (Aquatic, freshwater)
Exposure route :	Water (Including sewage plant)
Limit value :	0,68 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Exposure route :	Water (Including sewage plant)
Limit value :	0,68 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Exposure route :	Soil
Limit value :	16,39 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Exposure route :	Soil
Limit value :	16,39 mg/kg
Limit value type :	PNEC (Soil)
Exposure route :	Soil
Limit value :	2,89 mg/kg dry weight

Limit value type :	PNEC (Sewage treatment plant)
Exposure route :	Water (Including sewage plant)
Limit value :	13,61 mg/l

XYLENE ; CAS No. : 1330-20-7

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,327 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,327 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	12,64 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	12,64 mg/kg
Limit value type :	PNEC (Soil)
Exposure route :	Soil
Limit value :	2,31 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	6,58 mg/l

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,1 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,01 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	13,7 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	1,37 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	2,68 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	9,6 mg/l

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	140,9 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	140,9 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	552 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	552 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	28 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	2251 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable material : FKM (fluoro rubber) NBR (Nitrile rubber)
Thickness of the glove material : 0.7 mm
Breakthrough time : 480 min
Recommended glove articles EN ISO 374

Remark : Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

lab coat Overall

Suitable protective clothing : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

Required properties : antistatic. flame-resistant heat-resistant

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

Appropriate engineering controls
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Respiratory protection necessary at: exceeding exposure limit values aerosol or mist formation. spray application

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter:
Filter type: A2P2

General information

Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid

Odour : characteristic

Appearance

Colour : colourless

Safety characteristics

Melting point/freezing point :		No data available		
Initial boiling point and boiling range :	(1013 hPa)	82 - 143	°C	
Decomposition temperature :		No data available		
Flash point :		-2	°C	DIN 51755 part 1
Auto-ignition temperature :		425	°C	DIN 51794
Lower explosion limit :		0,8	Vol-%	
Upper explosion limit :		7	Vol-%	
Vapour pressure :	(20 °C)	29	hPa	
Density :	(20 °C)	0,783	g/cm^3	DIN 51757
Water solubility :	(20 °C)	partially miscible		
pH-value:	(20 °C)	not applicable		
Partition coefficient n-octanol/water :		No data available		
Cinematic viscosity :	(40 °C)	No data available		
Relative vapour density :	(20 °C)	No data available		
Vapourisation rate :		No data available		
Maximum VOC content (EC) :		100	Weight-%	1999/13/EC
VOC-value :		783	g/l	2004/42/EC
Oxidising liquids :	No data available.			
Explosive properties :	Not determined.			

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
Information is given in subsection 10.3.

10.2 Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions
In use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5 Incompatible materials
Exothermic reaction with:
Acid , Oxidising agent, strong.

10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

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

Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 (TOLUENE ; CAS No. : 108-88-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	3523 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	3500 mg/kg
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	5840 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	6592 mg/kg
Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2800 mg/kg
Method :	OECD 402
Parameter :	LD50 (TOLUENE ; CAS No. : 108-88-3)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	1100 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	12126 mg/kg
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 13400 mg/kg
Method :	OECD 402
Parameter :	ATE (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Dermal
Effective dose :	1100 mg/kg

Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (vapour)
Effective dose :	49,4 mg/l
Parameter :	LC50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Exposure route :	Inhalation (vapour)
Species :	Rat
Effective dose :	> 23,3 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LC50 (TOLUENE ; CAS No. : 108-88-3)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 20 mg/l
Exposure time :	4 h
Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation (vapour)
Species :	Rat
Effective dose :	11 mg/l
Exposure time :	4 h
Parameter :	LC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	11 mg/l
Exposure time :	4 h

Parameter :	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Inhalation (vapour)
Species :	Rat
Effective dose :	> 20 mg/l
Exposure time :	6 h
Method :	OECD 403

Corrosive/irritant effect on skin/eyes

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

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

Germ cell mutagenicity

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

Reproductive toxicity

Suspected of damaging the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter :	LC50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 13,4 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LL50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Species :	Gobiocypris rarus (Chinese rare minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 3 mg/l
Exposure time :	72 h
Parameter :	LC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	66 mg/l

Exposure time :	96 h
Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	2,6 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	6,4 mg/l
Exposure time :	48 h
Parameter :	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	9640 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 10000 mg/l
Exposure time :	24 h
Method :	OECD 202

Chronic (long-term) fish toxicity

Parameter :	NOEC (TOLUENE ; CAS No. : 108-88-3)
Species :	Oncorhynchus kisutch
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1,39 mg/l
Exposure time :	40 D
Parameter :	Chronic (long-term) fish toxicity (XYLENE ; CAS No. : 1330-20-7)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	> 1,3 mg/l
Exposure time :	56 D

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 3 mg/l
Exposure time :	48 h
Method :	OECD 211
Parameter :	EC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	270 mg/l
Exposure time :	24 h
Parameter :	LC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Ceriodaphnia dubia
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	3,78 mg/l
Exposure time :	48 h
Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	1 mg/l

Exposure time :	24 h
Method :	OECD 202
Parameter :	EC50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	2,4 mg/l
Exposure time :	48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (TOLUENE ; CAS No. : 108-88-3)
Species :	Ceriodaphnia dubia
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	0,74 mg/l
Exposure time :	7 D
Parameter :	NOEC (XYLENE ; CAS No. : 1330-20-7)
Species :	Daphnia pulex (water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	1,17 mg/l
Exposure time :	7 D
Parameter :	NOEC (ETHYLBENZENE ; CAS No. : 100-41-4)
Species :	Daphnia pulex (water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	0,96 mg/l
Exposure time :	7 D

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	NOELR (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 10 mg/l
Exposure time :	72 h
Parameter :	EC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	125 - 160 mg/l
Exposure time :	48 h
Parameter :	EC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Chlamydomonas angulosa
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	134 mg/l
Exposure time :	3 h
Parameter :	EC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Selenastrum capricornutum
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	2,2 mg/l
Exposure time :	73 h
Method :	OECD 201
Parameter :	EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h

Toxicity to microorganisms

Parameter :	EC50 (TOLUENE ; CAS No. : 108-88-3)
Species :	Nitrosomonas
Evaluation parameter :	Bacteria toxicity
Effective dose :	84 mg/l

Exposure time :	24 h
Parameter :	Bacteria toxicity (XYLENE ; CAS No. : 1330-20-7)
Effective dose :	16 mg/l
Exposure time :	28 D
Method :	OECD F

12.2 Persistence and degradability

Biodegradation

Parameter :	Biodegradation (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
Inoculum :	Biodegradation
Degradation rate :	98 %
Test duration :	28 D
Parameter :	Biodegradation (TOLUENE ; CAS No. : 108-88-3)
Inoculum :	Biodegradation
Degradation rate :	86 %
Test duration :	20 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Parameter :	Biodegradation (XYLENE ; CAS No. : 1330-20-7)
Inoculum :	Biodegradation
Degradation rate :	98 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301F
Parameter :	Biodegradation (ETHYLBENZENE ; CAS No. : 100-41-4)
Inoculum :	Biodegradation
Degradation rate :	90 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301F
Parameter :	DOC reduction (PROPAN-2-OL ; CAS No. : 67-63-0)
Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Degradation rate :	53 %
Test duration :	5 D

12.3 Bioaccumulative potential

Parameter :	Bioconcentration factor (BCF) (TOLUENE ; CAS No. : 108-88-3)
	Bioconcentration factor (BCF)
Value :	90
Parameter :	Bioconcentration factor (BCF) (XYLENE ; CAS No. : 1330-20-7)
	Bioconcentration factor (BCF)
Value :	5,5 - 12,2
Parameter :	Bioconcentration factor (BCF) (ETHYLBENZENE ; CAS No. : 100-41-4)
	Bioconcentration factor (BCF)
Value :	1
Parameter :	Log KOW (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, < 0.1% benzene ; CAS No. : 64742-49-0)
	Partition coefficient n-octanol /water (log P O/W)
Value :	4 - 5,7
Parameter :	Log KOW (XYLENE ; CAS No. : 1330-20-7)
	Partition coefficient n-octanol /water (log P O/W)
Value :	3,1 - 3,2
Parameter :	Log KOW (ETHYLBENZENE ; CAS No. : 100-41-4)
	Partition coefficient n-octanol /water (log P O/W)
Value :	3,6

12.4 Mobility in soil

Adsorption

Parameter :	Henry's Law Constant (XYLENE ; CAS No. : 1330-20-7)
Inoculum :	Mobility in soil
Effective dose :	623 Pa.m^3/mol
Exposure time :	25 °C

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number or ID number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT · TOLUENE)

Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT · TOLUENE)

Air transport (ICAO-TI / IATA-DGR)

FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT · TOLUENE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	3
Classification code :	F1
Hazard identification number (Kemler No.) :	33
Tunnel restriction code :	D/E
Special Provisions :	640D · LQ 1 l · E 2
Hazard label(s) :	3 / N

Sea transport (IMDG)

Class(es) :	3
EmS-No. :	F-E / S-E
Special Provisions :	LQ 1 l · E 2
Hazard label(s) :	3 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	3
Special Provisions :	E 2
Hazard label(s) :	3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user
None

14.7 Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 48, 75

Other regulations (EU)

Restrictions of use in accordance with regulation (EC) 2019/1148 on the marketing and use of explosives precursors

None

Labelling for contents according to regulation (EC) No. 648/2004

aliphatic hydrocarbons	>= 30 %
aromatic hydrocarbons	>= 30 %

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).

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 20 - 25 %

Water hazard class

Classification according to AwSV - Class : 3 (Strongly hazardous to water)

15.2 Chemical Safety Assessment
For this substance / mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes
08. Occupational exposure limit values · 15. Water hazard class

16.2 Abbreviations and acronyms
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
AGW = Occupational Exposure Limits
ATE = Acute Toxicity Estimates
AwSV = Ordinance on facilities for the handling of substances hazardous to water
DMEL = Derived Minimal Effect Levels
DNEL = Derived No Effect Level
ECx = effective concentration
H (8.1) = skin resorptive / risk of skin absorption
IATA = International Air Transport Association
ICAO = International Civil Aviation Organization
IMDG = International Maritime Code for Dangerous Goods
LCx/LDx/LLx = Lethal Concentration/Dose/Loading for x % of a population of test organisms

MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEC/NOAEL = No Observed Adverse Effect Concentration/Level
NOEC/NOEL = No Observed Effect Concentration/Level
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, bioaccumulative and toxic
PNEC = Predicted No Effect Concentration
RID = Règlement concernant le transport international ferroviaire des marchandises dangereuses
RCP = reciprocal calculation procedure
S(a/h/ah) (8.1) = risk of sensitisation (of the respiratory tract/of the skin/of the respiratory tract and the skin)
SVHC = Substances of Very high Concern
STEL = Short-Time-Exposure Limit
TRGS = Technical rules for hazardous substances
TWA = Time Weighted Average
VOC = volatile organic compounds
vPvB = very persistent and very bioaccumulative
VwVwS = Administrative regulation of substances hazardous to water
WGK = water hazard class acc. ordinance on facilities for handling substances that are hazardous to water (AwSV)
Y (8.1) = No risk of fetal damage will have to be feared, if the occupational exposure limit values (AGW) and the biological limit values (BGW) are observed.
Z (8.1) = The risk of fetal damage must be feared, even if the occupational exposure limit values (AGW) and the biological limit values (BGW) are observed.

16.3 Key literature references and sources for data

None

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

The classification for health hazards, physicochemical hazards and environmental hazards were derived from a combination of calculation methods and, if available, test data.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

None

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.