



Reinigungsflüssigkeit joke X 73016 A

Print date 26.02.2025
Revision date 24.04.2023
Version 3.3 (en)
replaces version of 19.12.2022 (3.2)

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

1.1 Product identifier

Trade name/designation Reinigungsflüssigkeit joke X 73016 A
Unique Formula Identifier UFI: CYD0-M01J-600D-Q658
Product category PC-CLN-17.5 Brake cleaners

Hazard components

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan
Cycloalkane, <5% n-Hexan, Naphtha (petroleum), hydrotreated light

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture

Technical aerosols

*** 1.3 Details of the supplier of the safety data sheet**

Supplier

joke Technology GmbH
Asselborner Weg 14-16
D-51249 Bergisch Gladbach
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60
E-mail info@joke.de
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):
sida@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN) +49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk +44 171 635 9191

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Aerosol 1, H222

Aerosol 1, H229

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H336

Aquatic Chronic 2, H411

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Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

* **2.2 Label elements**

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

Hazard components

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan
Cycloalkane, <5% n-Hexan, Naphtha (petroleum), hydrotreated light

Hazard pictograms



GHS02



GHS07



GHS09

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
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

P280 Wear protective gloves/protective clothing and eye protection/face protection.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P251 Do not pierce or burn, even after use.
P391 Collect spillage.
P304 IF INHALED:
P312 Call a POISON CENTER if you feel unwell.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents and containers in accordance with local, regional, national and international regulations.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

* **Special rules for supplemental label elements for certain mixtures**

EUH208 Contains (R) -P-MENTHA-1,8-DIENE. Can cause allergic reactions.

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* **Remark**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* **2.3 Other hazards****Adverse physicochemical effects**

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

* **Adverse environmental effects**

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

Results of PBT and vPvB assessment

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

* **SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

* **3.2 Mixtures****Hazardous ingredients**

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
64742-49-0	921-024-6		Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan Cycloalkane, <5% n-Hexan	≥ 25 ≤ 50 weight-%	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
64742-49-0	265-151-9		Naphtha (petroleum), hydrotreated light	≥ 25 ≤ 50 weight-%	Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	
67-64-1	200-662-2	606-001-00-8	acetone	≥ 10 < 20 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336; EUH066	ATE(oral): 5800 mg/kg
75-28-5	200-857-2		isobutane	≤ 10 weight-%	Flam. Gas 1; H220 Press. Gas (Comp.); H280	
124-38-9	204-696-9		Carbon dioxide	≤ 5 weight-%	Press. Gas (Comp.); H280	
74-98-6	200-827-9		propane	≤ 5 weight-%	Flam. Gas 1; H220 Press. Gas (Comp.); H280	
64-17-5	200-578-6	603-002-00-5	ethanol	≤ 5 weight-%	Flam. Liq. 2; H225	
67-63-0	200-661-7	603-117-00-0	propan-2-ol	≤ 5 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	ATE(oral): 5000 mg/kg ATE(dermal): 12800 mg/kg
5989-27-5	227-813-5	601-029-00-7	(R)-P-Mentha-1,8-Diene	< 1 weight-%	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1 (Aquatic Acute 1) M=1 (Aquatic Chronic 1) ATE(oral): 4400 mg/kg ATE(dermal): > 5000 mg/kg



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REACH No.	Substance name
01-2119475514-35	Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan Cycloalkane, <5% n-Hexan
01-2119475515-33	Naphtha (petroleum), hydrotreated light
01-2119471330-49	acetone
01-2119485395-27	isobutane
01-2119486944-21	propane
01-211-9457610-43	ethanol
01-2119457558-25	propan-2-ol
01-2119529223-47-0010	(R)-P-Mentha-1,8-Diene

*** SECTION 4: First aid measures**

*** 4.1 Description of first aid measures**

*** General information**

Keep airways open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).
 Remove contaminated, saturated clothing immediately.
 Wash before wearing again.

*** Following inhalation**

Remove casualty to fresh air and keep warm and at rest.
 Loosen tight-fitting items of clothing (e.g. collar, tie, belt or waistband).
 For the person providing first aid
 It can be dangerous for the person providing first aid to perform mouth-to-mouth resuscitation.

In case of unconsciousness and breathing, place the patient in the recovery position and seek medical advice.
 If breathing is irregular or stopped, administer artificial respiration.
 In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
 Take off contaminated clothing.
 In case of skin irritation, consult a physician.

*** After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
 Remove contact lenses, if possible

*** Following ingestion**

Do NOT induce vomiting.
 If you feel nauseous, do not continue to drink, as vomiting can be dangerous.
 If the substance has been swallowed and the affected person is conscious, drink small amounts of water.
 Give small amounts of water to drink.
 If vomiting occurs, keep your head low so that the vomit does not enter the lungs.
 Rinse mouth thoroughly with water.
 Turn a vomiting person lying on his back onto his side.
 If symptoms persist consult a doctor.



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- * **Self-protection of the first aider**
First aider: Pay attention to self-protection!
If it is suspected that vapors are still present, the rescuer must wear a suitable respirator or a self-contained breathing apparatus
No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Irritating
Cough
Nausea
Headache
Dizziness
Unconsciousness

- * **4.3 Indication of any immediate medical attention and special treatment needed**

- * **Notes for the doctor**
Treat symptomatically.
In case of ingestion or inhalation of large quantities, contact specialist or Poison Control Center immediately.
-

* **SECTION 5: Firefighting measures**

* **5.1 Extinguishing media**

- * **Suitable extinguishing media**
Use an extinguishing agent that is also suitable for adjacent fires.

Unsuitable extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Pressure increases when heated or fire, and the container may burst.
Extremely flammable aerosol
Gas can accumulate in accumulate in low-lying or enclosed areas or spread very far to a source of ignition to an ignition source and lead to a flashback with fire or explosion.
explosion.
In the event of fire, bursting aerosol containers can fly around at high speed
This material is toxic to aquatic organisms and has long-term effects.
In fires, hazardous combustion gases are formed:
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.
Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full face protection operated in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with European Standard EN 469 provides basic protection in the event of accidents involving chemicals.



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* **Additional information**

Do not inhale explosion and combustion gases.
Use water spray jet to protect personnel and to cool endangered containers.
Remove product from area of fire.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
The vapors of the product can collect on the floor in higher concentration and ignite again.

* **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
If a large number of containers break, treat as a
Treat as a bulk spill according to the instructions in the section on clean-up procedures.
Remove persons to safety.
Do not touch or walk on spilled substance.
Keep people away and stay on the upwind side.
Use personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
In case of pollution of waters or sewers, inform the competent authorities.

* **6.3 Methods and material for containment and cleaning up**

* **For containment**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
Dilute with water and wipe up if water soluble.
Alternatively, or if insoluble in water, absorb with an inert dry material and place in a suitable waste container.
Use spark-proof tools and explosion-proof devices.
Disposal according to regulations.

* **Other information**

Sorting out leaking cans and disposing of them correctly.

* **6.4 Reference to other sections**

Disposal: see section 13
Personal protection equipment: see section 8

* **SECTION 7: Handling and storage**



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*** 7.1 Precautions for safe handling**

*** Protective measures**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Handle and open container with care.

Keep away from sources of ignition - No smoking.

Vapours can form explosive mixtures with air.

Use only antistatically equipped (spark-free) tools.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Avoid effect of heat.

Do not spray against flames or glowing bodies.

Container is under pressure.

Avoid:

Eye contact

Skin contact

Do not inhale aerosols

Empty containers contain product residues and can be hazardous.

*** Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.

Wash hands and face before breaks and after work and take a shower if necessary.

Remove contaminated, saturated clothing.

Wash contaminated clothing prior to re-use.

Work in rooms with good ventilation.

In the immediate working surroundings there must be:

Emergency shower installed

Provide eye shower and label its location conspicuously

*** 7.2 Conditions for safe storage, including any incompatibilities**

*** Requirements for storage rooms and vessels**

Keep/Store only in original container.

Materials to avoid

Do not store together with:

Food and feedingstuffs

*** Further information on storage conditions**

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

Keep locked up.

Protect from sun.

Do not store the product near naked flames, heat or sources of ignition.

Protect from heat and direct solar radiation.

7.3 Specific end use(s)

Recommendation

See section 1.2

*** SECTION 8: Exposure controls/personal protection**

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
67-64-1	200-662-2	Acetone	500 [ml/m ³ (ppm)] 1210 [mg/m ³] 2000/39/EC

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CAS No	EC No	Substance name	occupational exposure limit value
124-38-9	204-696-9	Carbon dioxide	5000 [ml/m ³ (ppm)] 9000 [mg/m ³] 2006/15/EC
67-64-1	200-662-2	Acetone	500 [ml/m ³ (ppm)] 1210 [mg/m ³] (IE)
124-38-9	204-696-9	Carbon dioxide	5000 [ml/m ³ (ppm)] 9000 [mg/m ³] Short-term(ml/m ³) 15000 (1) Short-term(mg/m ³) 27000 (1) (1) 15 minutes reference period (IE)
64-17-5	200-578-6	Ethanol	Short-term(ml/m ³) 1000 (1) (1) 15 minutes reference period (IE)
67-63-0	200-661-7	Propan-2-ol	200 [ml/m ³ (ppm)] Short-term(ml/m ³) 400 (1) (1) 15 minutes reference period (IE)
67-64-1	200-662-2	Acetone	500 [ml/m ³ (ppm)] 1210 [mg/m ³] Short-term(ml/m ³) 1500 Short-term(mg/m ³) 3620 (UK)
124-38-9	204-696-9	Carbon dioxide	5000 [ml/m ³ (ppm)] 9150 [mg/m ³] Short-term(ml/m ³) 15000 Short-term(mg/m ³) 27400 (UK)
64-17-5	200-578-6	Ethanol	1000 [ml/m ³ (ppm)] 1920 [mg/m ³] (UK)
67-63-0	200-661-7	Propan-2-ol	400 [ml/m ³ (ppm)] 999 [mg/m ³] Short-term(ml/m ³) 500 Short-term(mg/m ³) 1250 (UK)
75-28-5	200-857-2	iso-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

*

DNEL worker

CAS No	Substance name	DNEL value	DNEL type	Remark
5989-27-5	(R)-P-Mentha-1,8-Diene	0.222 mg/cm ²	acute dermal, short-term (local)	
5989-27-5	(R)-P-Mentha-1,8-Diene	9.5 mg/kg	long-term dermal (systemic)	
5989-27-5	(R)-P-Mentha-1,8-Diene	33.3 mg/m ³	long-term inhalative (systemic)	
64-17-5	ethanol	1900 mg/cm ³	acute inhalative (local)	
64-17-5	ethanol	950 mg/m ³	acute inhalative (systemic)	

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CAS No	Substance name	DNEL value	DNEL type	Remark
64-17-5	ethanol	343 mg/kg	long-term dermal (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	1066.67 mg/m ³	acute inhalative (local)	
64742-49-0	Naphtha (petroleum), hydrotreated light	1286.4 mg/m ³	acute inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	25.9 mg/kg	long-term dermal (systemic)	
64742-49-0	Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan Cycloalkane, <5% n-Hexan	773 mg/kg	long-term dermal (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	837.5 mg/m ³	long-term inhalative (local)	
64742-49-0	Naphtha (petroleum), hydrotreated light	1.9 mg/m ³	long-term inhalative (systemic)	
64742-49-0	Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan Cycloalkane, <5% n-Hexan	2035 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	888 mg/kg	long-term dermal (systemic)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	
67-64-1	acetone	2420 mg/m ³	acute inhalative (local)	
67-64-1	acetone	186 mg/kg	long-term dermal (systemic)	
67-64-1	acetone	1210 mg/m ³	long-term inhalative (systemic)	

*

DNEL Consumer

CAS No	Substance name	DNEL value	DNEL type	Remark
5989-27-5	(R)-P-Mentha-1,8-Diene	0.111 mg/cm ²	acute dermal, short-term (local)	
5989-27-5	(R)-P-Mentha-1,8-Diene	4.76 mg/kg	Long-term – oral, systemic effects	
5989-27-5	(R)-P-Mentha-1,8-Diene	4.8 mg/kg	long-term dermal (systemic)	
5989-27-5	(R)-P-Mentha-1,8-Diene	8.33 mg/m ³	long-term inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	640 mg/m ³	acute inhalative (local)	
64742-49-0	Naphtha (petroleum), hydrotreated light	1152 mg/m ³	acute inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	149 mg/kg	Long-term – oral, systemic effects	
64742-49-0	Naphtha (petroleum), hydrotreated light	149 mg/kg	long-term dermal (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	178.57 mg/m ³	long-term inhalative (local)	

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64742-49-0	Naphtha (petroleum), hydrotreated light	0.41 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	26 mg/kg	Long-term – oral, systemic effects	
67-63-0	propan-2-ol	319 mg/kg	long-term dermal (systemic)	
67-63-0	propan-2-ol	89 mg/m ³	long-term inhalative (systemic)	
67-64-1	acetone	62 mg/kg	Long-term – oral, systemic effects	
67-64-1	acetone	62 mg/kg	long-term dermal (systemic)	
67-64-1	acetone	200 mg/m ³	long-term inhalative (systemic)	

* **8.2 Exposure controls*** **Appropriate engineering controls****Remark**

There should be a reference to verification standards such as the following: European standard DIN EN 689 (Workplace atmospheres - Guidance for the assessment of inhalation exposure to chemical substances for comparison with limit values and measurement strategy) European standard DIN EN 14042 (Workplace atmospheres - Guidelines for the application and use of application and use of methods and equipment for the assessment of chemical and biological agents) European standard DIN EN 482 (Workplace atmospheres - General requirements for the performance of methods for measuring chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances is also required.

* **Technical measures to prevent exposure**

ventilation system

Ventilation levels must be adapted to conditions. If necessary, use process chambers, local exhaust systems or other technical protective measures to control the concentrations in the air in order to keep them below the recommended exposure limits.

the recommended exposure limits. If no exposure limits have been set have been set, maintain airborne concentrations at an acceptable level.

* **Personal protection equipment*** **Eye/face protection**

tightly fitting goggles

If the risk assessment requires it, safety goggles should be worn, that conform to a recognized standard to prevent exposure to liquid splashes, mists, gases or dusts. If contact is possible, then the following protective equipment must be worn unless the assessment requires a higher level of protection: Chemical resistant goggles.

* **Hand protection**

By short-term hand contact

NBR (Nitrile rubber)

By long-term hand contact

Butyl caoutchouc (butyl rubber)

It is recommended to check the chemical resistance of the specified protective gloves for special applications with the glove manufacturer.



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Body protection:

Protective clothing
 EN 1149
 Overall
 antistatic
 Boots

Respiratory protection

Based on the hazard and risk of exposure, select the respirator that meets the appropriate standards and has the appropriate certifications. Respirators must be used in accordance with the Respirators must be used according to the respiratory protection program to ensure proper fit, adequate training and other important aspects of use. Recommended : Filters against organic vapors (type AX) and particles
 Respiratory protection necessary at:
 insufficient ventilation
 Suitable respiratory protection apparatus:
 Short term: filter apparatus, filter AX

* **Environmental exposure controls**

* **Technical measures to prevent exposure**

Take appropriate protective measures to limit or prevent emissions.
 Exhaust air scrubber

Additional information

The national and local legal regulations are to be observed.

* **SECTION 9: Physical and chemical properties**

* **9.1 Information on basic physical and chemical properties**

Physical state

Aerosol

Colour

colourless

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	Lower explosion limit 1.5 Vol-%		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		

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	Value	Method	Source, Remark
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	2.2- 5.2		CAS No64742-49-0 Naphtha (petroleum), hydrotreated light
Partition coefficient n-octanol/water (log value)	-0.23		CAS No67-64-1 acetone
Partition coefficient n-octanol/water (log value)	0.83		CAS No124-38-9 Carbon dioxide
Partition coefficient n-octanol/water (log value)	0.05		CAS No67-63-0 propan-2-ol
Partition coefficient n-octanol/water (log value)	4.38		CAS No5989-27-5 (R)- P-Mentha-1,8-Diene
Vapour pressure	5720 kPa (20°C)		CAS No124-38-9 Carbon dioxide
Vapour pressure	840 kPa (20°C)		CAS No74-98-6 propane
Vapour pressure	304 kPa (20°C)		CAS No75-28-5 isobutane
Vapour pressure	24 kPa (20°C)		CAS No67-64-1 acetone
Vapour pressure	6 kPa (20°C)		CAS No64742-49-0 Kohlenwasserstoffe, C6- C7, n-Alkane, Isoalkane, Cycloalkane, <5% n- Hexan Cycloalkane, <5% n- Hexan
Vapour pressure	5.7 kPa (20°C)		CAS No64-17-5 ethanol
Vapour pressure	5.6 kPa (20°C)	OECD 104	CAS No64742-49-0 Naphtha (petroleum), hydrotreated light
Vapour pressure	4.4 kPa (20°C)		CAS No67-63-0 propan-2-ol
Vapour pressure	0.2 kPa (20°C)		CAS No5989-27-5 (R)- P-Mentha-1,8-Diene
Density and/or relative density	0.699 g/cm ³		
Relative vapour density	not determined		
particle characteristics	not determined		

*** 9.2 Other information**



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* **Information with regard to physical hazard classes**

* **Aerosols**

Safety characteristics

	Value	Method, Result	Source, Remark
			The product is a spray aerosol.

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			Explosive in the presence of the following materials or conditions: open flames, sparks and electrostatic discharges.

* **Other information**

Heat of combustion: 9.394 kJ/g
 Focal point: > 200 °C

* **SECTION 10: Stability and reactivity**

10.1 Reactivity

This information is not available.

10.2 Chemical stability

stable

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

* **10.4 Conditions to avoid**

High temperatures, ignition sources, incompatible materials
 Evolution of heat.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be formed.

* **SECTION 11: Toxicological information**

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

* **Acute toxicity**

* **Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No67-64-1 acetone LD50: 5800 mg/kg Species Rat		

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	Effective dose	Method,Evaluation	Source, Remark
	CAS No5989-27-5 (R)-P-Mentha-1,8-Diene LD50: 4400 mg/kg Species Rat		
	CAS No67-63-0 propan-2-ol LD50: 5000 mg/kg Species Rat		
Acute dermal toxicity	CAS No5989-27-5 (R)-P-Mentha-1,8-Diene LD50: > 5000 mg/kg Species Rabbit		
	CAS No67-63-0 propan-2-ol LD50: 12800 mg/kg Species Rabbit		
Acute inhalation toxicity	not determined		

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

* **Skin corrosion/irritation****Animal data**

Result / Evaluation	Method	Source, Remark
CAS No5989-27-5 (R)-P-Mentha-1,8-Diene Causes skin irritation. Species Rabbit Exposure time 24 h		
CAS No67-64-1 acetone Mild irritant Species Rabbit		

Assessment/classification
 Irritant.

* **Serious eye damage/irritation****Animal data**

Result / Evaluation	Method	Source, Remark
CAS No67-64-1 acetone moderately irritant Species Rabbit		
CAS No67-63-0 propan-2-ol moderately irritant Species Rabbit Exposure time 24 h		
CAS No67-63-0 propan-2-ol strongly irritant. Species Rabbit		

Assessment/classification
 Causes serious eye irritation.



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* **Sensitisation to the respiratory tract**

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

* **Skin sensitisation**

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

* **Germ cell mutagenicity**

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

* **Carcinogenicity**

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

* **Reproductive toxicity**

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

STOT-single exposure

STOT SE 3

Irritation to respiratory tract

Other information

Naphtha (petroleum), hydrotreated light - Category 3 - Narcotic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, <5 % n-hexane - Category 3 - Narcotic effects
Acetone - Category 3 - Narcotic effects
2-Propanol - Category 3 - Narcotic effects

* **STOT-repeated exposure**

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

* **Aspiration hazard**

* **Assessment/classification**
Naphtha (petroleum), hydrotreated light - ASPIRATION HAZARD - Category 1
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, <5 compounds, <5 % n-hexane ASPIRATION HAZARD - Category 1
(R)-p-Mentha-1,8-diene
ASPIRATION HAZARD - Category 1

Symptoms related to the physical, chemical and toxicological characteristics

In case of ingestion

May cause central nervous system (CNS) depression.

In case of skin contact

May cause dryness and irritation of the skin.

In case of inhalation

May cause central nervous system (CNS) depression.
May cause drowsiness and dizziness.

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11.2 Information on other hazards**Other information**

May cause respiratory irritation.
 Inhalation causes headache/nausea.

*** SECTION 12: Ecological information***** 12.1 Toxicity***** Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No67-64-1 acetone LC50: 8000 ppm Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h		
	CAS No67-64-1 acetone LC50: 7.28 g/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No67-64-1 acetone LC50: 8.12 g/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No67-64-1 acetone LC50: 6.21 g/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	LC50: 5600 ppm Species Poecilia reticulata (Guppy) Test duration 96 h		
	CAS No5989-27-5 (R)-P-Mentha-1,8-Diene EC50 0.688 µg/mL Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No67-64-1 acetone LC50: 5600 ppm Species Poecilia reticulata (Guppy) Test duration 96 h		
Chronic (long-term) fish toxicity	CAS No67-64-1 acetone NOEC 0.005 µg/mL Test duration 42 d		

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	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) toxicity to crustacea	CAS No64-17-5 ethanol 15300 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No67-64-1 acetone LC50 4.42589 mg/L Test duration 48 h		
	CAS No67-64-1 acetone LC50 7.55 g/L Test duration 48 h		
	CAS No67-64-1 acetone LC50 8098 mg/L Species Ceriodaphnia spec Test duration 48 h		
	CAS No67-64-1 acetone LC50 11.26487 mg/L Test duration 48 h		
	CAS No67-64-1 acetone LC50 6000 mg/L Test duration 48 h		
	CAS No5989-27-5 (R)-P-Mentha-1,8-Diene EC50 0.421 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No67-64-1 acetone LC50 7460 mg/L Species Daphnia sp. Test duration 48 h		
	CAS No67-64-1 acetone LC50 7810 mg/L Species Daphnia sp. Test duration 48 h		
	CAS No67-64-1 acetone LC50 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No67-64-1 acetone LC50 9218 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No67-64-1 acetone LC50 8800 mg/L Species Daphnia pulex (water flea) Test duration 48 h		
	CAS No64-17-5 ethanol EC50 > 10000 mg/L Species Daphnia magna (Big water flea)		

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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No67-64-1 acetone NOEC 0.016 mg/L Test duration 21 d		
	CAS No67-64-1 acetone NOEC 0.1 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No67-64-1 acetone EC50 11493.3 mg/L Test duration 96 h		
	CAS No67-64-1 acetone EC50 11727.9 mg/L Test duration 96 h		
	CAS No67-64-1 acetone EC50 7200 mg/L Species <i>Selenastrum capricornutum</i> Test duration 96 h		
	CAS No67-64-1 acetone EC50 20.565 mg/L Test duration 96 h		
	CAS No64-17-5 ethanol EC50 275 mg/L Species <i>Chlorella vulgaris</i> Test duration 72 h	OECD 201	
	CAS No64-17-5 ethanol EC50 approx. 22000 mg/L Species <i>Pseudokirchnerella subcapitata</i> Test duration 96 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No64-17-5 ethanol ErC50: 275 mg/L		
	CAS No67-64-1 acetone NOEC: 0.5 mg/L Test duration 96 h		
	CAS No67-64-1 acetone NOEC: 0.1 mg/L Species <i>Skeletonema costatum</i> Test duration 72 h		
	CAS No67-64-1 acetone NOEC: 0.1 mg/L Species <i>Skeletonema costatum</i> Test duration 96 h		
Toxicity to other aquatic plants/organisms	CAS No67-64-1 acetone NOEC: 4.95 mg/L Test duration 96 h		
	not determined		
Toxicity to microorganisms	not determined		



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* **12.2 Persistence and degradability**

* **Assessment/classification**

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

* **12.3 Bioaccumulative potential**

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 10- 2500		CAS No64742-49-0 Naphtha (petroleum), hydrotreated light

12.4 Mobility in soil

Assessment/classification

This information is not available.

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 data available

12.7 Other adverse effects

No data available

* **SECTION 13: Disposal considerations**

* **13.1 Waste treatment methods**

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
160504 *	gases in pressure containers (including halons) containing hazardous substances
Waste code packaging	Waste name
150102	plastic packaging
150104	metallic packaging

Appropriate disposal / Product

Dispose of waste according to applicable legislation.
 Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Appropriate disposal / Package

Dispose of according to official regulations.

* **Remark**

Dispose according to legislation.
 Empty containers and liners may contain product residues. Do not puncture or incinerate containers.

* **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable



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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3 Transport hazard class(es)	2.1	2.1	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	-

* **14.6 Special precautions for user**

Transport in closed, upright and safe containers. Advice on safe handling: see sections 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No data available

* **Land transport (ADR/RID)**

UN number or ID number UN 1950
 UN proper shipping name AEROSOLS
 Transport hazard class(es) 2.1
 Hazard label(s) 2.1
 Classification code 5F
 Packing group -
 Environmental hazards ENVIRONMENTALLY HAZARDOUS
 Limited quantity (LQ) 1 L
 Special provisions 190, 327, 344, 625
 Tunnel restriction code D

* **Remark**

Labelling as an environmentally hazardous substance is not required if this substance is transported in quantities ≤5L or ≤5kgs.

* **Sea transport (IMDG)**

UN number or ID number UN 1950
 UN proper shipping name AEROSOLS
 Transport hazard class(es) 2.1
 Packing group -
 Environmental hazards ENVIRONMENTALLY HAZARDOUS
 Limited quantity (LQ) 1 L
 Marine pollutant No
 EmS F-D, S-U

* **Remark**

Labelling as an environmentally hazardous substance is not required if this substance is transported in quantities ≤5L or ≤5kgs.

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1950
 UN proper shipping name Aerosols, flammable
 Transport hazard class(es) 2.1



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Packing group -
Environmental hazards -

*** SECTION 15: Regulatory information**

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

*** Other regulations (EU)**

*** Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, ready-to-use condition 97.44 %
VOC-value 681.4 g/L

15.2 Chemical Safety Assessment

*** National regulations**

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

*** SECTION 16: Other information**

*** Indication of changes**

* Data changed compared with the previous version



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Abbreviations and acronyms

REACH: Registration, Evaluation and Authorization of Chemicals
SU: use category
CLP: Classification, Labelling and Packaging
DNEL: derived no-effect level
PNEC: Predicted No Effect Concentration
Aerosol 1: Aerosols, Category 1
Skin Irrit. 2: Skin irritation, Category 2
Eye Irrit. 2: Eye irritation, Category 2
STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)
Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
SCL: Specific concentration limit
ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service
Flam. Liq. 2: Flammable Liquids, Category 2
Asp. Tox. 1: Aspiration toxicity, Category 1
Flam. Gas 1A: Flammable gas, Category 1A
Press. Gas (Comp.): Compressed gas (CG)
Skin Sens. 1: Skin sensitizer, Category 1
Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1
EU: European Union
TRGS: Technical Rules for Hazardous Substances
BGW: Biological limit value (DE)
OECD: Organisation for Economic Cooperation and Development
LD50: Lethal (fatal) Dose 50%
LC50: Lethal (fatal) Concentration 50%
EC50: Effective Concentration 50%
NOEC: No Observed Effect Concentration
BCF: Bioconcentration Factor
AVV: Waste Shipment Ordinance (DE)
UN: United Nations
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Dangerous goods regulations for transport by rail
IMDG: International Maritime Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
VOC: Volatile organic compounds
WGK: water hazard class

Key literature references and sources for data

Datasheets of the manufacturer

*

Additional information

National and local regulations concerning chemicals shall be observed.
This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.
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.

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

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.



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- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- 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.

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Indication of changes

* Data changed compared with the previous version