



Reinigungsflüssigkeit joke X 73016 A

Print date 24.04.2023
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 +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
----------------------------------------------------------------------	--------------------------

Aerosol 1, H222 H229

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H336

Aquatic Chronic 2, H411



Reinigungsflüssigkeit joke X 73016 A

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

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/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.

**Reinigungsflüssigkeit joke X 73016 A**

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

* **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.	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	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	ethanol	≤ 5 weight-%	Flam. Liq. 2; H225	
67-63-0	200-661-7	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

**Reinigungsflüssigkeit joke X 73016 A**

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

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
5989-27-5	227-813-5	(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

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.
 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.
 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

Reinigungsflüssigkeit joke X 73016 A

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



- * **Following ingestion**
Do NOT induce vomiting.
Rinse mouth thoroughly with water.
Turn a vomiting person lying on his back onto his side.
If symptoms persist consult a doctor.
- * **Self-protection of the first aider**
First aider: Pay attention to self-protection!
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.
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.

* **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.

Reinigungsflüssigkeit joke X 73016 A

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



*** SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Protective equipment
Remove persons to safety.
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).
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**

*** 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.

**Reinigungsflüssigkeit joke X 73016 A**

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

- * **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.

Storage class

2B Aerosol dispensers and lighters

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*** **DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
64-17-5	ethanol	343 mg/kg	long-term dermal (systemic)	
64-17-5	ethanol	950 mg/m ³	acute inhalative (systemic)	
64-17-5	ethanol	1900 mg/cm ³	acute inhalative (local)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	888 mg/kg	long-term dermal (systemic)	
67-64-1	acetone	186 mg/kg	long-term dermal (systemic)	
67-64-1	acetone	1210 mg/m ³	long-term inhalative (systemic)	
67-64-1	acetone	2420 mg/m ³	acute inhalative (local)	

**Reinigungsflüssigkeit joke X 73016 A**

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

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-49-0	Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan	773 mg/kg	long-term dermal (systemic)	
64742-49-0	Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan	2035 mg/m ³	long-term inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	25.9 mg/kg	long-term dermal (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	1.9 mg/m ³	long-term inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	837.5 mg/m ³	long-term inhalative (local)	
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)	
67-64-1	acetone	1210 mg/m ³	long-term inhalative (systemic)	
67-64-1	acetone	2420 mg/m ³	acute inhalative (local)	
5989-27-5	(R)-P-Mentha-1,8-Diene	33.3 mg/m ³	long-term inhalative (systemic)	
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)	

*

DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-49-0	Naphtha (petroleum), hydrotreated light	0.41 mg/m ³	long-term 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)	
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)	
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)	
67-63-0	propan-2-ol	26 mg/kg	Long-term – oral, systemic effects	

**Reinigungsflüssigkeit joke X 73016 A**

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

CAS No.	Substance name	DNEL value	DNEL type	Remark
67-63-0	propan-2-ol	89 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	319 mg/kg	long-term dermal (systemic)	
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	8.33 mg/m ³	long-term inhalative (systemic)	
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	4.8 mg/kg	long-term dermal (systemic)	

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

* **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.

Body protection:

Protective clothing

EN 1149

Overall

antistatic

Boots

Respiratory protection

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

**Reinigungsflüssigkeit joke X 73016 A**

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

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		
Solubility(ies)	Water solubility		Immiscible
Partition coefficient n-octanol/water (log value)	2.2- 5.2		CAS No.64742-49-0 Naphtha (petroleum), hydrotreated light
Partition coefficient n-octanol/water (log value)	-0.23		CAS No.67-64-1 acetone
Partition coefficient n-octanol/water (log value)	0.83		CAS No.124-38-9 Carbon dioxide
Partition coefficient n-octanol/water (log value)	0.05		CAS No.67-63-0 propan-2-ol
Partition coefficient n-octanol/water (log value)	4.38		CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene
Vapour pressure	5720 kPa (20°C)		CAS No.124-38-9 Carbon dioxide

**Reinigungsflüssigkeit joke X 73016 A**

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

	Value	Method	Source, Remark
Vapour pressure	840 kPa (20°C)		CAS No.74-98-6 propane
Vapour pressure	304 kPa (20°C)		CAS No.75-28-5 isobutane
Vapour pressure	24 kPa (20°C)		CAS No.67-64-1 acetone
Vapour pressure	6 kPa (20°C)		CAS No.64742-49-0 Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan Cycloalkane, <5% n-Hexan
Vapour pressure	5.7 kPa (20°C)		CAS No.64-17-5 ethanol
Vapour pressure	5.6 kPa (20°C)	OECD 104	CAS No.64742-49-0 Naphtha (petroleum), hydrotreated light
Vapour pressure	47.7 kPa (50°C)	OECD 104	CAS No.64742-49-0 Naphtha (petroleum), hydrotreated light
Vapour pressure	4.4 kPa (20°C)		CAS No.67-63-0 propan-2-ol
Vapour pressure	0.2 kPa (20°C)		CAS No.5989-27-5 (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***** Information with regard to physical hazard classes***** Aerosols****Safety characteristics**

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

*

Other information

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

Reinigungsflüssigkeit joke X 73016 A

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



*** 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

Carbon monoxide
Carbon dioxide

*** 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 No.67-64-1 acetone LD50: 5800 mg/kg Species Rat CAS No.67-63-0 propan-2-ol LD50: 5000 mg/kg Species Rat CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene LD50: 4400 mg/kg Species Rat		
Acute dermal toxicity	CAS No.67-63-0 propan-2-ol LD50: 12800 mg/kg Species Rabbit CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene LD50: > 5000 mg/kg Species Rabbit		
Acute inhalation toxicity	not determined		

*** Assessment/classification**

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

Reinigungsflüssigkeit joke X 73016 A

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



*** Skin corrosion/irritation**

Animal data

Result / Evaluation	Method	Source, Remark
CAS No.67-64-1 acetone Causes skin irritation.Species Rabbit Exposure time 24 h		CAS No.67-64-1 acetone
CAS No.67-63-0 propan-2-ol Causes skin irritation.Species Rabbit Exposure time 24 h		CAS No.67-63-0 propan-2-ol
CAS No.67-63-0 propan-2-ol Causes skin irritation.Species Rabbit		CAS No.67-63-0 propan-2-ol
CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene Causes skin irritation.Species Rabbit Exposure time 24 h		CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene

Assessment/classification

Irritant.

*** Serious eye damage/irritation**

Animal data

Result / Evaluation	Method	Source, Remark
CAS No.67-64-1 acetone strongly irritant.Species Rabbit Exposure time 24 h		CAS No.67-64-1 acetone
CAS No.67-63-0 propan-2-ol strongly irritant.Species Rabbit Exposure time 24 h		CAS No.67-63-0 propan-2-ol

*** 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

Reinigungsflüssigkeit joke X 73016 A

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



STOT SE 1 and 2

Other information

May cause drowsiness or dizziness.

*** STOT-repeated exposure**

*** Assessment/classification**

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

*** Aspiration hazard**

*** Assessment/classification**

ASPIRATION HAZARD - Category 1

Symptoms related to the physical, chemical and toxicological characteristics

In case of ingestion

No data available

In case of inhalation

Inhalation causes narcotic effects/intoxication.

11.2 Information on other hazards

Other information

Irritates mucous membranes.

Irritates eyes and skin.

Inhalation causes narcotic effect/intoxication.

Causes disorders of the central nervous system and can cause headache, respiratory difficulties or unconsciousness.

*** SECTION 12: Ecological information**

*** 12.1 Toxicity**

*** Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.67-64-1 acetone LC50: 8000 ppm Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h		
	CAS No.67-64-1 acetone LC50: 7.28 g/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No.67-64-1 acetone LC50: 8.12 g/L Test duration 96 h		
	CAS No.67-64-1 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		

**Reinigungsflüssigkeit joke X 73016 A**

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

	Effective dose	Method, Evaluation	Source, Remark
	CAS No.67-63-0 propan-2-ol LC50: 4200 mg/L Test duration 96 h		
	CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene EC50 0.688 µg/mL Species Pimephales promelas (fathead minnow) Test duration 96 h		
Chronic (long-term) fish toxicity	CAS No.67-64-1 acetone NOEC 0.005 µg/mL Test duration 42 d		
Acute (short-term) toxicity to crustacea	CAS No.67-64-1 acetone LC50 4.42589 mg/L Test duration 48 h		
	CAS No.67-64-1 acetone LC50 7.55 g/L Test duration 48 h		
	CAS No.67-64-1 acetone LC50 8098 mg/L Species Ceriodaphnia spec Test duration 48 h		
	CAS No.67-64-1 acetone LC50 11.26487 mg/L Test duration 48 h		
	CAS No.67-64-1 acetone LC50 6000 mg/L Test duration 48 h		
	CAS No.67-63-0 propan-2-ol EC50 7550 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No.67-63-0 propan-2-ol LC50 1400 mg/L Test duration 48 h		
	CAS No.5989-27-5 (R)-P-Mentha-1,8-Diene EC50 0.421 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No.67-64-1 acetone LC50 7460 mg/L Species Daphnia sp. Test duration 48 h		
	CAS No.67-64-1 acetone LC50 7810 mg/L Species Daphnia sp. Test duration 48 h		

**Reinigungsflüssigkeit joke X 73016 A**

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

	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.67-64-1 acetone LC50 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No.67-64-1 acetone LC50 9218 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No.67-64-1 acetone LC50 8800 mg/L Species Daphnia pulex (water flea) Test duration 48 h		
	CAS No.67-64-1 acetone NOEC 0.016 mg/L Test duration 21 d		
	CAS No.67-64-1 acetone NOEC 0.1 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.67-64-1 acetone EC50 11493.3 mg/L Test duration 96 h		
	CAS No.67-64-1 acetone EC50 11727.9 mg/L Test duration 96 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.67-64-1 acetone EC50 7200 mg/L Species Selenastrum capricornutum Test duration 96 h		
	CAS No.67-64-1 acetone EC50 20.565 mg/L Test duration 96 h		
	CAS No.67-64-1 acetone NOEC: 0.5 mg/L Test duration 96 h		
	CAS No.67-64-1 acetone NOEC: 100 mg/L Species Skeletonema costatum Test duration 72 h		
	CAS No.67-64-1 acetone NOEC: 100 mg/L Species Skeletonema costatum Test duration 96 h		
Toxicity to other aquatic plants/organisms	CAS No.67-64-1 acetone NOEC: 4.95 mg/L Test duration 96 h		
	not determined		
Toxicity to microorganisms	not determined		

**Reinigungsflüssigkeit joke X 73016 A**

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

*** 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 No.64742-49-0 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

**Reinigungsflüssigkeit joke X 73016 A**

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

	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 $\leq 5L$ or $\leq 5kgs$.

*** 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 $\leq 5L$ or $\leq 5kgs$.

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

Reinigungsflüssigkeit joke X 73016 A

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



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



Reinigungsflüssigkeit joke X 73016 A

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

*

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.

Reinigungsflüssigkeit joke X 73016 A

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



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.

*

Indication of changes

* Data changed compared with the previous version