

SAFETY DATA SHEET

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

Revision date: 2 Nov 2020

Print date: 20 May 2021

Version: 1

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Bremsenreiniger

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

1.1. Product identifier

Trade name/designation:

Bremsenreiniger

Article No.:

10117

UFI:

DM0W-Y00Q-C00C-3X85

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

Use of the substance/mixture:

Cleaning agent

Relevant identified uses:

Product Categories [PC]

PC 35: Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

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

UNEX GmbH

Erwin Schrödinger Strasse 9

2100 Korneuburg

Austria

Telephone: +43 1 375 00 34

E-mail: office@unex.co.at

Website: www.unex.co.at

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), 24h: +43 1 406 43 43, +43 1 406 68 98 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	
Reproductive toxicity (<i>Repr. 2</i>)	H361f: Suspected of damaging fertility. (...)	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS09
Environment



GHS08
Health hazard



GHS07
Exclamation mark

Signal word: Danger

Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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Precautionary statements Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/Seife.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use In case of fire: Use dry sand to extinguish. to extinguish.

Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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2.3. Other hazards

No data available

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] Classification according to 67/548/EEC	Concentration
CAS No.: 110-54-3 EC No.: 203-777-6	n-hexane Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, Repr. 2, STOT RE 2, STOT SE 3, Skin Irrit. 2 Danger H225-H304-H315-H336-H361f-H373-H411 Specific concentration limit (SCL): STOT RE 2; H373: C ≥ 5% F; R11 — Repr. Cat. Frucht. 3; R62 — Xn; R48/20-R65 — Xi; R38 — R67 — N; R51-R53	48 - ≤ 80 Vol-%
CAS No.: 142-82-5 EC No.: 205-563-8 Index No.: 601-008-00-2	heptane Aquatic Acute 1, Aquatic Chronic 1, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3, Skin Irrit. 2 Danger H225-H304-H315-H336-H410 F; R11 — Xn; R65 — Xi; R38 — R67 — N; R50-R53	6 - ≤ 10 Vol-%
CAS No.: 75-09-2 EC No.: 200-838-9	dichloromethane Carc. 2 Warning H351 Carc. Cat. 3; R40	3 - ≤ 5 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	carbon dioxide Substance with a community workplace exposure limit.	3 - ≤ 5 Vol-%

Full text of R-, H- and EUH-phrases: 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 victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

No data available

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Storage class (TRGS 510, Germany): 2B - Aerosol dispensers and lighters

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	n-hexane CAS No.: 110-54-3 EC No.: 203-777-6	① 50 ppm (180 mg/m ³) ② 400 ppm (1,440 mg/m ³)
IOELV (EU)	n-hexane CAS No.: 110-54-3 EC No.: 203-777-6	① 20 ppm (72 mg/m ³)
TRGS 900 (DE)	heptane CAS No.: 142-82-5 EC No.: 205-563-8	① 500 ppm (2,100 mg/m ³) ② 500 ppm (2,100 mg/m ³)
IOELV (EU)	heptane CAS No.: 142-82-5 EC No.: 205-563-8	① 500 ppm (2,085 mg/m ³)
DFG (DE)	heptane CAS No.: 142-82-5 EC No.: 205-563-8	① 500 ppm (2,100 mg/m ³) ② 1,000 ppm (4,200 mg/m ³)
IOELV (EU)	dichloromethane CAS No.: 75-09-2 EC No.: 200-838-9	① 100 ppm (383 mg/m ³) ② 200 ppm (706 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE)	dichloromethane CAS No.: 75-09-2 EC No.: 200-838-9	① 50 ppm (180 mg/m ³) ② 100 ppm (360 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IOELV (EU)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,000 mg/m ³)
TRGS 900 (DE)	carbon dioxide CAS No.: 124-38-9 EC No.: 204-696-9	① 5,000 ppm (9,100 mg/m ³) ② 10,000 ppm (18,200 mg/m ³)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	n-hexane CAS No.: 110-54-3 EC No.: 203-777-6	5 mg/L	① 2,5-Hexandion + 4,5-Dihydroxy-2-hexanon, Nach Hydrolyse: ② Urin ③ Expositionsende bzw. Schichtende
BAT (DE)	heptane CAS No.: 142-82-5 EC No.: 205-563-8	250 µg/L	① Heptan-2,5-dion ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	dichloromethane CAS No.: 75-09-2 EC No.: 200-838-9	500 µg/L	① Dichlormethan ② Blut ③ unmittelbar nach Exposition

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Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
BLV (EU)	dichloromethane CAS No.: 75-09-2 EC No.: 200-838-9	3 mg	① Methylene chloride ② urine ③ no restriction
BLV (EU)	dichloromethane CAS No.: 75-09-2 EC No.: 200-838-9	1 mg/L	① Methylene chloride ② blood ③ no restriction

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol (Liquid)

Colour: not determined

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	= 0.7 g/cm ³	20 °C		
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			

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parameter		at °C	Method	Remark
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

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11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

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 treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)			
		 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
		 MARINE POLLUTANT	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.6. Special precautions for user

Special provisions: Excepted Quantities (EQ): Hazard identification number (Kemler No.): Classification code: 1.5F tunnel restriction code: (D) Remark:	Special provisions: Excepted Quantities (EQ): Classification code: 1.5F Remark:	Special provisions: Excepted Quantities (EQ): EmS-No.: Remark:	Special provisions: Excepted Quantities (EQ): Remark:
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14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	
Reproductive toxicity (<i>Repr. 2</i>)	H361f: Suspected of damaging fertility. (...)	
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

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

Hazard statements (R phrases)	
R11	Highly flammable.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available