

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 1 of 15

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

1.1. Product identifier

Bremsenreinigerspray (321000844)

UFI: TUE0-N0W3-A00A-A178

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

Use of the substance/mixture

Cleaning agent.

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name: Eduard Lutz Schrauben-Werkzeuge GmbH
Street: Dieselstraße 15
Place: D-86368 Gersthofen
Telephone: +49 (0) 821/4989-0 Telefax: +49 (0) 821/4989-111
e-mail: technischer-handel@lutzgruppe.de
Contact person: see section: "Department responsible for information:"
e-mail: produktmanagement@lutzgruppe.de
Internet: www.lutzgruppe.de
Responsible Department: Ansprechpartner: Herr Bablich, Herr Sturm, Herr Ravi, Herr Eberl

1.4. Emergency telephone number:

+49(0)30-19240 Giftzentrale Berlin (24h)

Further Information

Restricted to professional users. Safety data sheet available for professional user on request. Follow the instructions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 2 of 15

Signal word: Danger

Pictograms:



Hazard statements

- | | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

- | | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P403 | Store in a well-ventilated place. |

Additional advice on labelling

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

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H222-H229

Precautionary statements

P210-P211-P251-P410+P412

2.3. Other hazards

- Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Product has an anesthetic effect. Do not breathe aerosol.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous additions:

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 3 of 15

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			30 - < 50 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes			30 - < 50 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
124-38-9	Carbon dioxide			2.5 - < 5 %
	204-696-9			
	Compressed gas; H280			
74-98-6	propane			2.5 - < 5 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Compressed gas; H220 H280			
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))			2.5 - < 5 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Compressed gas; H220 H280			
75-28-5	Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))			1 - < 2.5 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Compressed gas; H220 H280			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	921-024-6	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	30 - < 50 %
		inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5840 mg/kg	
	927-510-4	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	30 - < 50 %
		inhalation: LC50 = > 23,3 mg/l (vapours); inhalation: LC50 = > 25,2 mg/l (dusts or mists); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = > 5840 mg/kg	

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

>= 30 % aliphatic hydrocarbons.

Further Information

n-hexane: c < 3 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! In all cases of doubt, or when symptoms persist, seek medical advice. Remove contaminated, saturated clothing immediately. Remove persons to safety. Keep away from unprotected people. Keep upwind. Ventilate affected area.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 4 of 15

After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. Seek medical attention if problems persist. Wash contaminated clothing before reuse.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyelids open. Protect the injured eye. Rinse also under the lid of the eyelid. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Call a physician immediately. Rinse mouth thoroughly with water. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Medical treatment necessary. In case of spontaneous vomiting, keep the head below the waist to prevent aspiration of the product.

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

The following symptoms may occur: difficulties of breathing. Headache. Dizziness. Dizziness. Coughing. Nausea.

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

First Aid, decontamination, treatment of symptoms. Caution if victim vomits: Risk of aspiration! Subsequent observance for pneumonia and lung oedema. Because of aspiration gastric lavage only under endotracheal intubation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Upon heating and / or in case of fire, formation of toxic gases is possible.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products. aldehydes.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

Additional information

Contaminated fire-fighting water must be collected separately. Dispose of fire residues and extinguishing water in accordance with official regulations. Co-ordinate fire-fighting measures to the fire surroundings.

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment. Keep away from unprotected people. Keep upwind. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 5 of 15

and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13.

Safe handling: see section 7. Personal protection equipment: see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems.

Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. Vapours / aerosols must be extracted by suction immediately at point of origin.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

Remove all sources of ignition. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Further information on handling

Heating causes rise in pressure with risk of bursting.

After use replace the closing cap immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

The official regulations for the storage of compressed gas packages must be observed.

Hints on joint storage

Do not store together with: Food and feedingstuffs, Water.

Further information on storage conditions

Protect against: heat. UV-radiation/sunlight. frost. moisture.

Heating causes rise in pressure with risk of bursting.

Observe the storage regulations of the TRGS 300 for flammable aerosols.

7.3. Specific end use(s)

Cleaning agent. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 6 of 15

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
Worker DNEL, long-term		inhalation	systemic	2035 mg/m³
Worker DNEL, long-term		dermal	systemic	773 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	608 mg/m³
Consumer DNEL, long-term		dermal	systemic	699 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	699 mg/kg bw/day
	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes			
Worker DNEL, long-term		inhalation	systemic	2085 mg/m³
Worker DNEL, long-term		dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	447 mg/m³
Consumer DNEL, long-term		dermal	systemic	149 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	149 mg/kg bw/day

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities. Have eye showers and safety shower ready.

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work. Restore grease film of the skin after cleansing by using a fat cream to prevent dermatitis.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

Eye/face protection

Tightly sealed safety glasses. DIN EN 166

Hand protection

Protect skin by using skin protective cream. Before starting work, apply solvent-resistant skincare preparations.

Tested protective gloves are to be worn: EN ISO 374

Hand protection: NBR (Nitrile rubber).

Thickness of glove material: $\geq 0,45$ mm

penetration time (maximum wearing period): ≥ 240 min

Breakthrough times and swelling properties of the material must be taken into consideration.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Observe the wear time limits as specified by the manufacturer.

Skin protection

Protective clothing: Body protection must be selected depending on the activity and possible impact. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). DIN EN 13034-6: Boots. solvent-resistant

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 7 of 15

exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus).

Environmental exposure controls

Discharge into the environment must be avoided. Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	like: Benzine
Odour threshold:	not determined
pH-Value:	not determined

Changes in the physical state

Melting point:	Not applicable, aerosol
Boiling point or initial boiling point and boiling range:	Not applicable, aerosol
Flash point:	Not applicable, aerosol

Flammability

Solid/liquid:	not determined
Gas:	not determined

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	> 200 °C

Self-ignition temperature

Solid:	not determined
Gas:	not determined

Decomposition temperature:	not determined
----------------------------	----------------

Oxidizing properties

not determined

Vapour pressure:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,69 g/cm³
Water solubility:	Immiscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	96,50 %

9.2. Other information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 8 of 15

Solid content:

0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Ignition hazard. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

In use, may form flammable/explosive vapour-air mixture.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products. aldehydes.

Further information

In case of exceeding the storage temperature: Danger of bursting container. >50°C

SECTION 11: Toxicological information

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

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
	oral	LD50 > 5840 mg/kg	Rat (Rattus).	ECHA	Standard acute method
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
	inhalation (4 h) vapour	LC50 > 25,2 mg/l	Rat	Study report (1988)	Group of rats were exposed to test subst
	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes				
	oral	LD50 > 5840 mg/kg	Rat (Rattus).	SDS	
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
	inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	Study report (1988)	OECD Guideline 403
	inhalation (4 h) aerosol	LC50 > 25,2 mg/l	Rat (Rattus).	SDS	

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 9 of 15

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes)

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

SECTION 12: Ecological information

12.1. Toxicity

Leakage into the environment must be prevented.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 10 of 15

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane					
	Acute fish toxicity	LL50 11,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	CEFIC 1995	OECD 203
	Acute algae toxicity	ErC50 mg/l 10 - 30	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 3 mg/l	48 h	Daphnia magna (Big water flea)	Shell 1994	OECD 202
	Fish toxicity	NOEC mg/l 2,045	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes					
	Acute algae toxicity	ErC50 12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201
	Fish toxicity	NOEC mg/l 1,534	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
74-98-6	propane					
	Acute fish toxicity	LC50 mg/l 49,9	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l 19,37	96 h	algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l 69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))					
	Acute fish toxicity	LC50 mg/l 49,9	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l 19,37	96 h	algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l 69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
75-28-5	Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))					
	Acute fish toxicity	LC50 mg/l 49,9	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l 19,37	96 h	algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 11 of 15

	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
--	--------------------------	--------------	-------	------	-------------	--	---

12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
	OECD 301F	98 %	28	ECHA
	Easily biodegradable (concerning to the criteria of the OECD)			
	oxygen consumption	83 %	16	ECHA
	Easily biodegradable (concerning to the criteria of the OECD)			
	Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes			
	OECD 301F	98 %	28	Shell 1997
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Toxic to aquatic life with long lasting effects.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,31
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))	1,09
75-28-5	Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))	1,09

BCF

CAS No	Chemical name	BCF	Species	Source
	Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	242 - 253		SDS

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

Toxic to fish and plankton.

Toxic to aquatic life with long lasting effects.

Danger to drinking water if even small quantities leak into the ground.

Further information

Doesn't get into the sewage water as long as the process is carried out according to regulations.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

hazardous to water (WGK 2)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation.

Must not be disposed together with household garbage. Do not allow to enter into surface water or drains.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 12 of 15

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging


Contaminated packaging

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)


14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS (ENVIRONMENTALLY HAZARDOUS)
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS (ENVIRONMENTALLY HAZARDOUS)
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS (Solvent Naphtha) MARINE POLLUTANT
14.3. Transport hazard class(es): 2.1

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 13 of 15

14.4. Packing group:

Hazard label: 2.1



Marine pollutant: Ja
Special Provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable (ENVIRONMENTALLY HAZARDOUS)

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

Hazard label: 2.1



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Solvent Naphtha

14.6. Special precautions for user

Warning (ENVIRONMENTALLY HAZARDOUS) Keep away from sources of ignition - No smoking.

14.7. Maritime transport in bulk according to IMO instruments

No data available

Other applicable information

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

2004/42/EC (VOC): 96,5 % (665,9 g/l)
Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS
(SEVESO III):

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 14 of 15

Additional information: E2

Additional information

REACH Regulation (EC) No 1907/2006, as last amended by Commission Regulation (EU) 2021/797
CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2021/849
In the following under "NK" all volatile organic substances are quantitatively summed up, which according to chapter 5.2.5 of the TA-Luft are neither Class I nor Class II.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Naphtha (petroleum), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Naphtha, hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes
propane
Butane (<0.1% butadiene (EINECS 203-450-8))
Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))

SECTION 16: Other information

Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bremsenreinigerspray (321000844)

Revision date: 14.09.2021

Product code: 321000844_V2.00

Page 15 of 15

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Washing and cleaning products (including solvent based products), Industrial spraying, Non industrial spraying	-	3, 22	35	7, 11	-	-	-	Aerosol

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)