



MATERIAL SAFETY DATA SHEET

Conforms guideline 1907/2006/EG




1. Chemical product and company identification

Tradename **BRAKE CLEANER, aerosol**
Data sheet no. 1222
Application Degreaser. Professional use.

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2. Hazard identification

Classification  extremely flammable  irritant  dangerous for the environment

Health hazards Irritating to the skin. Vapours may cause drowsiness and dizziness.
Chemical hazards Extremely flammable
Environmental hazards Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment

Additional information Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – no smoking. Buildup of explosive mixtures possible without sufficient ventilation. Keep out of reach of children.

3. Composition / information on ingredients

Description of substances responsible for the classification of the preparation:

EC name	EC nr	% w/w	Symbol(s)	Risk phrase(s)
Naphta (petroleum), hydrotreated, light	265-151-9	50 – 100	F,Xn,Xi,N	11-38-51/53-65-67
Propane	200-827-9	10 – 25	F+	12
Butane	203-448-7	2,5 – 10	F+	12
Isobutane	200-857-2	2,5 – 10	F+	12

Occupational exposure limit(s), if relevant, are listed in chapter 8.

Reference is made to chapter 16 for full text of each relevant Risk phrase mentioned above.



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4. First aid measures

First aid measures

Inhalation	fresh air, rest; call physician if complaints persist
Skin contact	wash with copious amounts of water; remove contaminated clothing and wash before re-use
Eye contact	immediately flush with water for at least 15 minutes (remove contact lenses) seek medical attention.
Ingestion	rinse mouth with water; do NOT induce vomiting. Immediately seek medical attention : aspiration may cause chemical pneumonia.
Directions for medical personnel	In case of ingestion, reckon with appsiration of the product which may cause chemical pneumonia. Effects may occur delayed.

5. Fire fighting measures

Suitable extinguishing media	foam, carbon dioxide, dry chemical powder, atomized water
Non suitable media	full water jet
Specific exposure risks	Buildup of explosive mixtures possible. Exploding aerosols may fly about in the near proximity of the fire.
Protection for fire fighters	self contained breathing apparatus

6. Accidental release measures

Personal precautions	Wear protective equipment. Clear area and keep other personnel at distance. Ventilate area.
Environmental precautions	Do not allow product to enter sewage system or water course
Methods for cleaning up	Ensure adequate ventilation.

7. Handling and storage

Handling	Ensure good ventilation at the workplace. Handle with care. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – no smoking. Do not pierce or burn, even after use.
Storage	Store in a cool place. Protect from sunlight and direct heat. Away from strong acids and oxidizing materials.

8. Exposure controls / personal protection

Engineering measures	Keep away from foodstuffs, beverages and feed. Avoid contact with skin.
Hygienic measures	Wash hands after use and before breaks.



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Occupational exposure limits	long-term		short term	
Naphta (petroleum) hydrotreted, light	1800 mg/m ³	600 ppm		
Butane	1450 mg/m ³	600 ppm	1810 mg/m ³	750 ppm

The efficacy of protective equipment depends o.a. of temperature and degree of ventilation. Always take expert advice about local situation.

Personal protection



Respiratory protection

Hand protection

Eye protection

Normally not necessary in case of adequate ventilation.

Due to missing tests, no advice can be given. Select glove material on consideration of penetration time, rate of diffusion and degree of degradation. Ask your supplier.

Tightly sealed goggles.

9. Physical and chemical properties

Physical state	Aerosol
Colour	Colourless
Odour	Characteristic.
Vapour pressure	appr. 3,5 bar
Explosion limits	1,1 – 10,9 vol%
Relative density at 20°C	0,660 g/cm ³
Miscibility with water	Not resp. hardly miscible
Content organic solvents	92,9 % w/w

10. Stability and reactivity

Stability	No decomposition if used according to specifications.
Conditions to avoid	Do not expose to direct sunlight or a higher temperature than 50°C
Materials to avoid	Strong acids and oxidizing substances, specifically those of class 5.1
Hazardous decomposition products	In case of incomplete incineration, possible formation of carbon monoxide.

11. Toxicological information

With the product as such, no toxicological survey has been carried out.

Acute toxicity

	LD50 oral (rat)	LD50 dermal (rabit)	LC50 inhalation (rat)
Naphta (petroleum)	> 2000 mg/kg	> 2000 mg/kg	> 5 mg/l/4u
Butane	-	-	> 500 mg/l/4u

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Contact with skin
Contact with eyes
Sensitization

Irritating to skin
May cause irritation
None known

12. Ecological information


Ecotoxicological effects:

Ecotoxicity Toxic to fish.
Water hazard class (Germany) 2, hazardous for water.
Dangerous to drinking water if even small quantities leak into the ground.
VOC contents 613 g/l


13. Disposal considerations

Product Must not be disposed together with household waste
Packaging 15 01 10 metallic packaging including pressurized containers
Comply with local and/or official regulations.

14. Transport information

UN Number UN1950
Labels 

ADR class 2
Classification code 5F
Proper shipping name UNI 1950 Aerosols
Remarks Cartons comply with LQ2 of table 3.4.6. of ADR regulations

IMDG class 2.1
Labels 

Proper Shipping name 'AEROSOLS'
UN1950 AEROSOLS
Remarks Cartons comply with SP277 of Chapter 3.3. of IMDG Regulations
EmS F-D / S-U
Stowage and segregation Category A

15. Regulatory information

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extremely
flammable



irritant



dangerous for
the environment

Hazard symbols

Component declaration: -

Risk phrases

- R12 Extremely flammable
R38 Irritating to skin
R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R67 Vapours may cause drowsiness and dizziness.

Safety phrases

- S2 Keep out of reach of children
S23 Do not breath aerosols
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.

Additional EC regulations

Aerosol text Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Buildup of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children.

Ingredient declaration according Directive 648/2004/EC:

Brake cleaner contains a.o.:	
Alifatic hydrocarbons	> 30%

16. Other information

This safety data sheet conforms to EC directive 2001/58/EC of 27 July 2001. The data given here are based on our current knowledge and expertise and the purpose of this safety data sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the properties of the product. Although reasonable care has been taken in the preparation of this document to assess and summarise the hazard properties of the product, the user must satisfy himself that the information contained herein is pertinent to permit safe handling under his use conditions, since the supplier cannot foresee all conditions of use. It is advised to pass this information on to all personnel/parties concerned, if necessary in an appropriate format.

Explanation of the Risk phrases mentioned in section 2

- R11 Highly flammable
R12 Extremely flammable
R38 Irritating to skin
R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65 Harmful: may cause lung damage if swallowed
R67 Vapours may cause drowsiness or dizziness

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Explanation of the abbreviations used in this data sheet

n.d. Not determined
n.d.a. No data available

This data sheet is issued by QHSE Department

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