

Material Safety Data Sheet

according to 91/155/EEC + 2001/58/EEC

Product name : BRAKE CLEANER AEROSOL 500 ML
Revision : 15.08.2006 **Version :** 5.0.0
Print date : 04-01-2007

01. Identification of the substance, preparation and company

Product name

BRAKE CLEANER AEROSOL 500 ML

Manufacturer/Supplier

A.B.S. All Brake Systems b.v.

Street/P.O.Box

Tinbergenlaan 7

Country code/Postal code/Town/City

3401 MT IJsselstein

Telephone / Telefax

+31 30 68 61 200 / +31 30 68 61 232

Contact

Rini de Boer (rbo@abs-bv.nl)

Emergency information

+31 30 68 61 200 (only at office hours 8:30 - 17:00)

02. Composition/information on ingredients

Hazardous components

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT ; EC-No. : 265-151-9; CAS-No. : 64742-49-0

Percentage : 50 - 100 %

Classification : F ; R 11 N ; R 51/53 Xn ; R 65 Xi ; R 38 R 67

ISOPENTANE ; EC-No. : 203-692-4; CAS-No. : 109-66-0

Percentage : 10 - 25 %

Classification : F+ ; R 12 N ; R 51/53 Xn ; R 65 R 67 R 66

ETHANOL ; EC-No. : 200-578-6; CAS-No. : 64-17-5

Percentage : 2,5 - 10 %

Classification : F ; R 11

BUTANE ; EC-No. : 203-448-7; CAS-No. : 106-97-8

Percentage : 2,5 - 10 %

Classification : F+ ; R 12

For the wording of the listed risk phrases refer to section 16.

03. Hazards identification

Hazard designation

Extremely flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Irritating to skin. · Vapours may cause drowsiness and dizziness.

Classification : F+ ; R 12 · N ; R 51/53 · Xi ; R 38 · R 67

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. For further information refer to "specifications about toxicology".

After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

First-aid measures Do not induce vomiting. Rinse mouth with cold water. Keep at rest.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

In case of fire do not breathe fumes

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. No sparking tools should be used.

Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

Storage class (VCI) : 2B

08. Exposure controls and personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

ISOPENTANE ; CAS-No. : 109-66-0

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 1000 ppm / 3000 mg/m³

Category : 4

Version date : 01-03-2002

ETHANOL ; CAS-No. : 64-17-5

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 1000 ppm / 1900 mg/m³

Category : 4

Remarks : Y

Version date : 01-03-2002

BUTANE ; CAS-No. : 106-97-8

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 1000 ppm / 2400 mg/m³

Category : 4(II)

Version date : 01-01-2006

09. Physical and chemical properties

Relevant safety data

Physical state :			liquid
Odour :			Characteristic.
Colour :			Light-brown.
Boiling point / range :	(1013 hPa)		-44 °C
Flash point :		<	-25 °C
Lower explosion limit :			0,6 % b.v.
Upper explosion limit :			10 % b.v.
Vapour pressure :	(50 °C)	ca.	8000 hPa
Density :	(20 °C)		no data available
Solubility in water :	(20 °C)		insoluble
Viscosity :	(20 °C)		no data available

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

There are no data available on the preparation itself. The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC). Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Skin and eye contact: frequent and long lasting contact may cause irritation and skin inflammation. Eye contact: irritation.

12. Ecological information

Do not empty into waters or drains.

13. Disposal considerations

In accordance with local official regulations.

14. Transport information

Land transport ADR/RID

Classification

Class : 2
 Substance number : 1950
 LQ 2

Kemlercode : 23
 Classification-Code : 5F

Proper shipping name

AEROSOLS

Packaging

Label :

2.1



Remarks

Tremcards : C2_FO

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 2.1
 UN number : 1950
 LQ 1 I

EmS number : F-D / S-U
 Marine Poll. : -

Proper shipping name

AEROSOLS

Packaging

Label :

2.1



Air transport ICAO-TI and IATA-DGR

Classification

Class : 2.1
 UN number : 1950

Proper shipping name

AEROSOLS

Packaging

Label :

2.1



15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



F+ ; Extremely flammable



Xi ; Irritant



N ; Dangerous for the environment

R-phrases

- 12 Extremely flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
38 Irritating to skin.
67 Vapours may cause drowsiness and dizziness.

S-phrases

- 29/35 Do not empty into drains; dispose of this material and its container in a safe way.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
16 Keep away from sources of ignition - No smoking.
33 Take precautionary measures against static discharges.
24 Avoid contact with skin.
7/9 Keep container tightly closed and in a well-ventilated place.

Special designation for certain preparations

- 56 Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50 °C.
57 Do not pierce or burn, even after use.
58 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

National regulatory information

Water pollution classification

Class : 2 according VwVwS

16. Other information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

Further information

Relevant changes

08. Components with critical values that require monitoring at the workplace (exposure limits)

R-Phrases of components

11	Highly flammable.
12	Extremely flammable.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
