



Brake Cleaner, Aerosol

Print date : 22.12.2005

Product code : 33

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

Brake Cleaner, Aerosol

Use of the substance/preparation

Cleaning agent.

1.2 Company/undertaking identification

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2. Composition/information on ingredients

Chemical characterization (preparation)
Alcohols. ketone. Corrosion inhibitors.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9	64742-49-0	Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated light	< 40 %	F, Xn, Xi, N R11-38-65-67-51-53
200-662-2	67-64-1	acetone, propan-2-one, propanone	< 20 %	F, Xi R11-36-66-67
203-625-9	108-88-3	toluene	< 20 %	F, Repr. Cat. 3, Xn, Xi R11-63-48/20-65-38-67
200-661-7	67-63-0	isopropanol, isopropyl alcohol, propan-2-ol	< 10 %	F, Xi R11-36-67

Full text of each relevant R phrase can be found in heading 16.

Additional Information

CAS-Nr. 64742-49-0: benzene < 0,1 % (Nota P)

3. Hazards identification

Classification

Symbols : Extremely flammable, Harmful, Dangerous for the environment

R-phrases :

Possible risk of harm to the unborn child.

Extremely flammable.

Vapours may cause drowsiness and dizziness.

Irritating to eyes and skin.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

General information

Take the injured person out of the danger area and lay him/her down.

Change contaminated clothing.

After inhalation

Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side.



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After contact with skin

After contact with skin, wash immediately with soap and plenty of water.
If skin becomes irritated, seek medical treatment.

After contact with eyes

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid.
Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. Consult physician.

Advice to doctor

The following symptoms can occur:
unconsciousness. Intoxication. vomiting. daze. Headache.

5. Fire-fighting measures

Suitable extinguishing media

Extinguishing powder. Carbon dioxide (CO₂). Water fog. alcohol resistant foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Swims on the water. Vapours are heavier than air and will travel at floor level.

Special protective equipment for fire-fighters

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

Additional information

Cool endangered container in case of fire.

6. Accidental release measures

Personal precautions

Provide adequate ventilation. Wear suitable solvent-proof protective clothing according to EN 465.
Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes.
Do not breathe gas/fumes/vapour/spray.

Environmental precautions

Do not empty into drains or the aquatic environment. In cases of gas being released or leakage into waters, the ground or the drainage system the appropriate authorities must be informed.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Additional information

Explosive. Fumes may form explosive mixtures with air.

7. Handling and storage

7.1 Handling

Advice on safe handling

Keep only in the original container in a cool, well ventilated place. Have to care for a good Ventilation at workplace.

Advice on protection against fire and explosion

Fumes may form explosive mixtures with air.

7.2 Storage



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Requirements for storage rooms and vessels

The floor should be leak tight, jointless and not absorbent. Keep only in the original container in a cool, well ventilated place. Do not store at temperatures over: 50 °C
Heating causes rise in pressure with risk of bursting.

8. Exposure controls/personal protection

8.1 Exposure limit values

BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
67-63-0	2-Propanol	50 mg/l	Aceton	B	b
67-64-1	Aceton	80 mg/l	Aceton	U	b
108-88-3	Toluol	3,0 mg/l	o-Kresol	U	c,b

8.2 Exposure controls

Protective and hygiene measures

Keep away from food, drink and animal feeding stuffs.
Take off immediately all contaminated clothing Wash hands when done working with material; at breaks, lunch, shift changes, etc.
Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

Respiratory protection

Have to care for a good Ventilation at workplace.

Hand protection

Tested protective gloves are to be worn: FKM (Fluoroelastomer).NBR (Nitrile rubber).

Eye protection

Wear tightly sealed safety glasses against possible splashes into the eyes.

9. Physical and chemical properties

9.1 General information

Physical state : Aerosol
Colour : colourless
Odour : aromatic

9.2 Important health, safety and environmental information

Changes in the physical state

Boiling point : 36 °C
Flash point : < 0 °C
Density (at 20 °C) : 0,69 g/cm³
Water solubility : partially soluble
at (20 °C)

Test method

9.3 Other information

Ignition temperature : > 200 °C

10. Stability and reactivity

Conditions to avoid

Do not store at temperatures over: 50 °C
Keep away from heat.



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Hazardous decomposition products

No dangerous reactions are known.
No hazardous decomposition products are known.

11. Toxicological information

Corrosive and irritant effects

Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.

12. Ecological information

Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

Bioaccumulative potential

Swims on the water. Low potential of bio-accumulation.

Additional information

Do not empty into drains or the aquatic environment.

13. Disposal considerations

Advice on disposal

The allocation of waste identity numbers/waste descriptions must be carried out according to the EAKV, specific to the industry and process.
Arrange about the exact waste code with the local waste disposal expert.

Do not dispose with household waste.

Contaminated packaging

Dispose of waste according to applicable local, state, and federal regulations. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

14. Transport information

Land transport (ADR/RID)

ADR/RID class : 2
Warnings plate
Hazard-no. : -
UN number : 1950
Hazard label : 2.1
ADR/RID packing group : -

Description of the goods

Aerosols, flammable Propane/butane-mixture

Remarks (land transport)

LQ: 1 l

Inland waterways transport

Marine transport

IMDG code : 2
UN number : 1950
Marine pollutant : -
EmS : F-D, S-U
IMDG packing group : -
Hazard label : 2.1

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Description of the goods

Aerosols, flammable Propane/butane-mixture

Remarks (marine transport)

LQ: 1 l

Air transport

ICAO/IATA-DGR :	2.1	
UN/ID number :	1950	
Hazard label :	2.1	
IATA-packing instructions - Passenger :		203
IATA-max. quantity - Passenger :		75 Kg
IATA-packing instructions - Cargo :		203
IATA-max. quantity - Cargo :		150 Kg
ICAO packing group :	-	

Description of the goods

Aerosols, flammable Propane/butane-mixture

Remarks (air transport)

LQ: 30 Kg G

15. Regulatory information

15.1 Labelling

Indication of danger :

F+ - Extremely flammable; Xn - Harmful; N - Dangerous for the environment



F+ - Extremely flammable

Xn - Harmful

N - Dangerous for the environment

Hazardous component(s) to be indicated on label

toluene

R phrases :

- 12 Extremely flammable.
- 63 Possible risk of harm to the unborn child.
- 67 Vapours may cause drowsiness and dizziness.
- 36/38 Irritating to eyes and skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases :

- 02 Keep out of the reach of children.
- 29 Do not empty into drains.
- 51 Use only in well-ventilated areas.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
- 36/37 Wear suitable protective clothing and gloves.

Special labelling for certain preparations

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. Keep out of the reach of children.

15.2 National regulations



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Water contaminating class : 2 - water contaminating

16. Other information

List of relevant R phrases

- 11 Highly flammable.
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 36/38 Irritating to eyes and skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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