

Brake Maintenance

Print date : 14.04.2008

Product code : 189

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

Identification of the substance or preparation

Brake Maintenance

Company/undertaking identification

Company name : PRO-TEC Deutschland
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Further Information

Article Number: 2601

2. Hazards identification

Classification

Indications of danger : Extremely flammable
 R-phrases :
 Extremely flammable.
 In use, may form flammable/explosive vapour-air mixture.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical characterization (preparation)

corrosion preventing agent
 Surface tension compounds
 Anti Seize Agent
 Sum of ingredients:
 20 - 55 %

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9	64742-49-0	Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light	< 15 %	F, Xn, Xi, N R11-38-65-67-51-53
215-222-5	1314-13-2	zinc oxide	< 2 %	N R50-53

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

4. First aid measures

General information

Move victim to fresh air. Put victim at rest and keep warm.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.
 In case of difficulties of breathing consult physician.
 If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
 After contact with skin, wash immediately with plenty of Water and soap.
 Rub in high-fat content cream.

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After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Consult physician.

After ingestion

Let water be swallowed in little sips (dilution effect). Consult physician.

Advice to doctor

Warning about danger of aspiration.

5. Fire-fighting measures

Suitable extinguishing media

Extinguishing powder.
Sand.
alcohol resistant foam.
Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons

High power water jet.

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

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

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

Additional information

Cool endangered container in case of fire.
Contaminated fire-fighting water must be collected separately.

6. Accidental release measures

Personal precautions

In case of fire: Wear self-contained breathing apparatus.
Keep away from sources of ignition. No smoking.
Do not breathe gas/fumes/vapour/spray.

Environmental precautions

Beat down gas/vapours/mist with water spray.
Do not empty into drains or the aquatic environment.
In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods for cleaning up/taking up

Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
Wipe up with absorbent material (eg. cloth, fleece).

7. Handling and storage

Handling

Advice on safe handling

Closed devices. Vapours / aerosols must be extracted by suction immediately at point of origin.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges.

Storage

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Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Storage in compliance with official storage regulations of aerosoles.

Do not store at temperatures over: 50 °C

Further information on storage conditions

Packaging materials: metal.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. "Wash hands when done working with material; at breaks, lunch, shift changes, etc."

Respiratory protection

Provide for good ventilation, when develop aerosols/mist. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Use gloves.

Eye protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

9. Physical and chemical properties

General information

Physical state : Aerosol
 Colour : aluminium
 Odour : characteristic

Important health, safety and environmental information

Changes in the physical state

Lower explosion limits :	0,6 vol. %	Test method
Upper explosion limits :		
Density (at 20 °C) :	0,68 g/cm ³	
Water solubility :	insoluble	
(at 20 °C)		
Solubility in other solvents :	Organic solvents	

Other information

Ignition temperature : > 250 °C



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10. Stability and reactivity

Conditions to avoid

Only use material in places where open light, fire and other sources of ignition can be kept away.
Do not store at temperatures over: 50 °C
Keep away from heat.

Materials to avoid

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

Hazardous decomposition products

Carbon monoxide (CO)., Carbon dioxide (CO₂).

11. Toxicological information

Acute toxicity

LD₅₀(oral, rat) > 2000 mg/Kg.
dermal LD₅₀ > 2000 mg/Kg (rabbit)
inhalant LC₅₀ > 5,5 mg/l / 4h (rat)

Corrosive and irritant effects

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.
After ingestion:
Harmful: may cause lung damage if swallowed.

12. Ecological information

Ecotoxicity

Distillates(petroleum, gasoline)
Fish, LC₅₀, 1-10 mg/l
Algae, IC₅₀, 1-10 mg/l

Further information

Do not empty into drains or the aquatic environment.

13. Disposal considerations

Advice on disposal

Do not dispose with household waste.
Do not empty into drains or the aquatic environment.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.
Arrange about the exact waste code with the local waste disposal expert.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

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

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.
Do not pierce, cut up or weld unclean container. (Explosion hazard.)

14. Transport information

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Land transport (ADR/RID)

UN number : 1950
ADR/RID class : 2
Classification code : 5 F
Warning plate
Hazard-no. : -
Hazard label : 2.1
ADR/RID packing group : -
Limited quantity : 1 l

Description of the goods

Aerosols, flammable Propane/butane-mixture

Inland waterways transport

Remarks (inland waterways transport)

No data

Marine transport

UN number : 1950
IMDG code : 2
Marine pollutant : -
Hazard label : 2.1
IMDG packing group : -
EmS : F-D, S-U
Limited quantity : 1 l

Description of the goods

Aerosols, flammable Propane/butane-mixture

Air transport

UN/ID number : 1950
ICAO/IATA-DGR : 2.1
Hazard label : 2.1
ICAO packing group : -
Limited quantity Passenger : 30 Kg G
IATA-packing instructions - Passenger : 203
IATA-max. quantity - Passenger : 75 Kg
IATA-packing instructions - Cargo : 203
IATA-max. quantity - Cargo : 150 Kg

Description of the goods

Aerosols, flammable Propane/butane-mixture

15. Regulatory information

Labelling

Danger symbols : F+ - Extremely flammable



F+ - Extremely flammable

R phrases

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

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52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 23 Do not breathe Aerosol.
51 Use only in well-ventilated areas.
56 Dispose of this material and its container at hazardous or special waste collection point.

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.

National regulatory information

Water contaminating class : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 11 Highly flammable.
12 Extremely flammable.
18 In use, may form flammable/explosive vapour-air mixture.
38 Irritating to skin.
50 Very toxic to aquatic organisms.
51 Toxic to aquatic organisms.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.

Further Information

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.)