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

## Identification of the substance or preparation

Brake Cleaner

## Use of the substance/preparation

Cleaning agent.

## Company/undertaking identification

Company name: PRO-TEC Deutschland
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**Further Information** 

Article Number: 2201

#### 2. Hazards identification

#### Classification

Indications of danger: Highly flammable, Irritant, Dangerous for the environment

R-phrases : Highly flammable. Irritating to skin.

Vapours may cause drowsiness and dizziness.

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

# 3. Composition/information on ingredients

## Chemical characterization (preparation)

Surface tension compounds Cleaning and care agent Anti wear agents not classified corrosion preventing agent Sum of ingredients: > 55 %

Aerosol propellent: Carbon dioxide (CO2).

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9		Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light	60 - 95 %	F, Xn, Xi, N R11-38-65-67-51-53
203-777-6	110-54-3	n-hexane		F, Xn, Xi, N R11-38-65-67-48/20-51-53

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

# 4. First aid measures

#### General information

Move victim out of danger zone and lay down.

Change contaminated clothing.



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#### After inhalation

Provide fresh air.

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

#### After contact with skin

After contact with skin, wash immediately with plenty of Water and soap.

In case of skin irritation, seek medical treatment.

## After contact with eyes

If product gets into the eye, keep e4yelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an opthalmologist.

#### After ingestion

Do not induce vomiting. Consult physician.

# 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 arising from substance or preparation itself, combustion products, resulting gases

Swims on the water. Vapours are heavier than air and will spread 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 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

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

# Additional information

Explosive. Vapours may form explosive mixtures with air.

# 7. Handling and storage

## 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.



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#### Advice on protection against fire and explosion

Vapours may form explosive mixtures with air.

#### **Storage**

#### 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

#### **Exposure limit values**

#### **Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### **Exposure controls**

#### Occupational exposure controls

Carbon dioxide (CO2). MAK 5000 ppm

#### 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 (Viton)).NBR (Nitrile rubber).

#### Eye protection

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

## 9. Physical and chemical properties

# **General information**

Physical state : Aerosol
Colour : colourless
Odour : aromatic

## Important health, safety and environmental information

Test method

# Changes in the physical state

Lower explosion limits : 0,6 vol. %

Upper explosion limits :

Vapour pressure : 4000 hPa

(at 20 °C)

Vapour pressure : 7000 hPa

(at 50 °C)

Density (at 20 °C): 0,70 g/cm³ Water solubility: slightly soluble

(at 20 °C)

#### Other information



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Ignition temperature: > 200 °C

## 10. Stability and reactivity

## **Conditions to avoid**

Do not store at temperatures over: 50 °C

Keep away from heat.

## 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

#### **Bioaccumulative potential**

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

#### **Further information**

Do not empty into drains or the aquatic environment.

# 13. Disposal considerations

#### Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Arrange about the exact waste code with the local waste disposal expert.

Do not dispose with household waste.

#### Contaminated packaging

Waste disposal according to official state regulations. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

## 14. Transport information

# Land transport (ADR/RID)

UN number: 1950
ADR/RID class: 2
Classification code: 5A

Warning plate

Hazard-no.: Hazard label: 2.2
ADR/RID packing group: Limited quantity: 1 I

#### **Description of the goods**

Aerosols (Carbon dioxide (CO2).)

# Inland waterways transport

UN number: 1950
ADNR class: 2
Classification code: 5A
Hazard label: 2.2



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Packing group : Limited quantity : LQ2

**Description of the goods** 

**AEROSOLS** 

#### Marine transport

UN number: 1950
IMDG code: 2
Marine pollutant: Hazard label: 2.2
IMDG packing group: -

EmS: F-D, S-U

#### **Description of the goods**

Aerosols Carbon dioxide (CO2).

#### Air transport

UN/ID number: 1950
ICAO/IATA-DGR: 2.2
Hazard label: 2.2
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 (Carbon dioxide (CO2).)

## 15. Regulatory information

# **Labelling**

Danger symbols : F - Highly flammable; Xi - Irritant; N - Dangerous for the environment







F - Highly flammable

Xi - Irritant

N - Dangerous for the environment

#### R phrases

Highly flammable.Irritating to skin.

Vapours may cause drowsiness and dizziness.

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.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe Aerosol.

51 Use only in well-ventilated areas.

# 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.



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# **National regulatory information**

Water contaminating class: 1 - slightly water contaminating

Vapours may cause drowsiness and dizziness.

## 16. Other information

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

11	Highly flammable.
38	Irritating to skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
51	Toxic to aquatic organisms.
51/53	Toxic 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.

# **Further Information**

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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 singulary 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.)