



Rust Remover

Print date : 04.05.2006

Product code : 245

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

1.1 Identification of the substance or preparation

Rust Remover

1.2 Company/undertaking identification

Company name	PRO-TEC Deutschland	
Street	Gewerbegebiet Aschbach	
Place	D-07338 Großgeschwenda	
Contact person	Jens Möller, Dipl.-Chem.	Telephone 036735/444-0
e-mail	info@pro-tec-deutschland.com	Telefax 036735/444-44
Internet	www.pro-tec-deutschland.de	

2. Composition/information on ingredients

Chemical characterization (preparation)
Solvent mixture, corrosion preventing agent, Lubricants

Wax	5 - 20 %
Oil	5 - 20 %
alcoholes	5 - 10 %

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-149-8	64742-47-8	Distillates (petroleum), hydrotreated light	45 - 65 %	Xn R65
203-448-7	106-97-8	butane	10 - 20 %	F+ R12
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.

3. Hazards identification

Classification

Symbols : Extremely flammable
R-phrases :
Extremely flammable.

4. First aid measures

General information

Move victim to fresh air. Instruct person to keep calm and warm.

After inhalation

Move victim to fresh air. Instruct person to keep calm and 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

Contaminated clothing, including underwear and shoes, must be taken off immediately.
After contact with skin, wash immediately with soap and plenty of water.
Rub in high-fat content cream.

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.

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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 arriving 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 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

Prevent allover extension (e.g.knocking-down or a boom).

Wipe up with absorbent material (eg. cloth, fleece).

7. Handling and storage**7.1 Handling****Advice on safe handling**

Closed devices. Vapors / aerosols must be cleaned by suction immediately at the place 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.

7.2 Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Packaging materials: metal.

8. Exposure controls/personal protection**8.1 Exposure limit values**

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Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
67-63-0	2-Propanol	50 mg/l	Aceton	B	b

8.2 Exposure controls

Protective and hygiene measures

When using do not eat, drink, smoke or sneeze. 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

Tested protective gloves are to be worn: Butyl rubber. (EN 374)

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

9.1 General information

Physical state	Aerosol
Colour	yellow
Odour	characteristic

9.2 Important health, safety and environmental information

Changes in the physical state

	Test method
Boiling point	145 - 200 °C
Flash point	< 0 °C
Lower explosion limits	0,6 vol. %
Upper explosion limits	6,5 vol. %
Density (at 20 °C) :	0.83-0.85 g/cm ³
Water solubility :	insoluble
at (20 °C)	
Solubility in other solvents	Organic solvents

9.3 Other information

Ignition temperature	> 200 °C
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10. Stability and reactivity

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Conditions to avoid

Only use the material in places where open light, fire and other flammable sources 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

Following 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)
Fish, LC₅₀, 1-10 mg/l
Algae, IC₅₀, 1-10 mg/l

Bioaccumulative potential

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

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.

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. (Danger of explosion.)

14. Transport information**Land transport (ADR/RID)**

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

Description of the goods

Aerosols, flammable Propane/butane-mixture

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Remarks (land transport)

LQ: 1 l

Inland waterways transport

Remarks (inland waterways transport)

No data

Marine transport

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

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



F+ - Extremely flammable

R phrases

12 Extremely flammable.

S phrases

02 Keep out of the reach of children.
23 Do not breathe Aerosol.
51 Use only in well-ventilated areas.

Special labelling for certain preparations



Safety Data Sheet

according to 2001/58/EC

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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

Water contaminating class

2 - water contaminating

16. Other information

List of relevant R phrases

- 11 Highly flammable.
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

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.)