



**Diesel System Cleaner**

Print date : 11.04.2006

Product code : 232

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

**1.1 Identification of the substance or preparation**

Diesel System Cleaner

**Use of the substance/preparation**

Cleaning agent for Diesel Systems

**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 )

Surface tension compounds

Detergents, Dispersants

Synthetic agent combinations

corrosion preventing agent

Lubricants

Multifunction Diesel Fuel Additive

Sum of ingredients:

20 - 60 %

**Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-149-8	64742-47-8	Distillates (petroleum), hydrotreated light	30 - 60 %	Xn R65
215-535-7	1330-20-7	xylene	< 10 %	Xn, Xi R10-20/21-38
203-625-9	108-88-3	toluene	< 10 %	F, Xn, Xi R11-38-65-67-48/20

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

**3. Hazards identification**

**Classification**

Symbols : Harmful

R-phrases :

Flammable.

Harmful: may cause lung damage if swallowed.

**4. First aid measures**

**After inhalation**

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

**After contact with skin**

Contaminated clothing, including underwear and shoes, must be taken off immediately.

Subsequently wash down with: water and soap.

**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. Carbon dioxide (CO<sub>2</sub>). 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**

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.

Beat down gas/vapours/mist with water spray.

Contaminated fire-fighting water must be collected separately.

**6. Accidental release measures****Personal precautions**

Wear a self-contained breathing apparatus and chemical resistant suit.

Keep away from sources of ignition. No smoking.

**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**

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

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

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

Material must only be handled in closed apparatus or systems. 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.

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

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### Exposure limits (EH40)

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		150	574		STEL (15 min)	WEL

### BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
108-88-3	Toluol	3,0 mg/l	o-Kresol	U	c,b
1330-20-7	Xylol (alle Isomeren)	2 g/l	Methylhippur-(Tolur-)säure	U	b

### 8.2 Exposure controls

#### Protective and hygiene measures

- Take off immediately all contaminated clothing
- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin and eyes.
- Keep away from food, drink and animal feeding stuffs.
- When using do not eat, drink or smoke.
- 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 fire: Wear self-contained breathing apparatus.

#### Hand protection

- Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer). (EN374)

#### 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	liquid
Colour	brown
Odour	aromatic

### 9.2 Important health, safety and environmental information

#### Changes in the physical state

Boiling point	10 - 210 °C
Flash point	45 °C
Lower explosion limits	> 0,6 vol. %
Upper explosion limits	> 7,0 vol. %
Vapour pressure :	> 8 hPa
at (20 °C)	
Density (at 20 °C) :	0.824 - 0.9 g/cm <sup>3</sup>
Water solubility :	insoluble
at (20 °C)	
Solubility in other solvents	Organic solvents

Test method

### 9.3 Other information

Ignition temperature	> 200 °C
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**10. Stability and reactivity****Conditions to avoid**

Only use the material in places where open light, fire and other flammable sources can be kept away.  
No decomposition when used as intended.

**Materials to avoid**

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

**Hazardous decomposition products**

No hazardous decomposition products are known.

**11. Toxicological information****Acute toxicity**

Observations relevant to classification: (LD/LC50-values):

**Petroleum**

oral >2000 mg/Kg rat.  
dermal >2000 mg/Kg rabbit.  
inhalative > 5 mg/l/4h rat.

**Toluene**

oral > 2000 mg/Kg rat.  
dermal > 14000 mg/Kg rabbit.  
inhalativ > 31 mg/ l/4h rat.

**Xylene.**

oral > 2000 mg/Kg rat.  
dermal > 2000 mg/Kg rabbit.  
inhalativ > 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.

**Sensitising effects**

no danger of sensitization.

**12. Ecological information****Ecotoxicity**

Distillates(petroleum)  
Fish, LC50, 10-100 mg/l  
Algae, IC50, 10-100 mg/l

**Toluene**

Fish, LC50, 1-10 mg/l  
Algae, IC50, >100 mg/l  
Daphnia, EC50, 10-100 mg/l  
Bacteria, EC50, > 100 mg/l

**Xylene.**

Fish, LC50, 1-10 mg/l  
Algae, IC50, 10-100 mg/l  
Daphnia, EC50, 10-100 mg/l



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**Persistence and degradability**

Product is biodegradable.

**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**

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

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

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

**Contaminated packaging**

Container must be completely emptied.

Do not pierce, cut up or weld unclean container. (Danger of explosion.)

**14. Transport information**

**Land transport (ADR/RID)**

ADR/RID class	3
Warning plate	
Hazard-no.	30
UN number	1993
Hazard label	3
ADR/RID packing group	III

**Description of the goods**

Flammable liquid, n.o.s.

**Remarks (land transport)**

LQ: 5 l

**Inland waterways transport**

**Remarks (inland waterways transport)**

No data

**Marine transport**

IMDG code	3
UN number	1993
EmS	F-E, S-E
IMDG packing group	III
Hazard label	3

**Description of the goods**

Flammable liquid, n.o.s.

**Remarks (marine transport)**

LQ: 5 l

**Air transport**

ICAO/IATA-DGR	3
UN/ID number	1993
Hazard label	3

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IATA-packing instructions - Passenger	309
IATA-max. quantity - Passenger	60 l
IATA-packing instructions - Cargo	310
IATA-max. quantity - Cargo	220 l
ICAO packing group	III

**Description of the goods**

Flammable liquid, n.o.s.

**Remarks (air transport)**

LQ: 10 l

**15. Regulatory information**

**15.1 Labelling**

Indication of danger

Xn - Harmful



Xn - Harmful

**Hazardous component(s) to be indicated on label**

Distillates (petroleum), hydrotreated light

**R phrases**

10	Flammable.
65	Harmful: may cause lung damage if swallowed.

**S phrases**

02	Keep out of the reach of children.
46	If swallowed, seek medical advice immediately and show this container or label.

**15.2 National regulations**

Water contaminating class

2 - water contaminating

**16. Other information**

**List of relevant R phrases**

10	Flammable.
11	Highly flammable.
38	Irritating to skin.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.
20/21	Harmful by inhalation and in contact with skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**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.)*