



Common Rail Diesel System Clean & Protect

Print date : 19.12.2006

Product code : 363

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

Identification of the substance or preparation

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Use of the substance/preparation

Cleaning agent

Company/undertaking identification

Company name : PRO-TEC Deutschland GmbH
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2. Composition/information on ingredients

Chemical characterization (preparation)

Lubricants
Multifunction Diesel Fuel Additive
Synthetic agent combinations
Detergents, Dispersants
Surface tension compounds
corrosion preventing agent

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-149-8	64742-47-8	Distillates (petroleum, gasoline), hydrotreated light	50 - 90 %	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
	37205-87-1	isonylphenole, ethoxylised phenole, ethoxylised	< 5 %	Xn, Xi, N R22-41-51-53

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

3. Hazards identification

Classification

Indications of danger : Harmful
R-phrases :
Flammable.
Harmful: may cause lung damage if swallowed.

4. First aid measures

After inhalation

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

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
Subsequently wash again 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.



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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. Carbon dioxide (CO₂). 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 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).
Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

7. Handling and storage

Handling

Advice on safe handling

Material must only be handled in closed installations or systems. 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

Requirements for storage rooms and vessels

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

8. Exposure controls/personal protection

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Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	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

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

- In case of accumulation of fumes/aerosols, provide adequate ventilation.
- In case of fire: Wear self-contained breathing apparatus.

Hand protection

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

General information

Physical state :	liquid
Colour :	brown
Odour :	aromatic

Important health, safety and environmental information

Changes in the physical state

	Test method
Boiling point :	200 - 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 ³
Water solubility :	insoluble
(at 20 °C)	
Solubility in other solvents :	Organic solvents



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Other information

Ignition temperature : > 200 °C

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.
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 (Gasoline)

oral >2000 mg/Kg rat.

dermal >2000 mg/Kg Rabbit.

inhalant > 5 mg/l/4h rat.

Toluene

oral > 2000 mg/Kg rat.

dermal > 14000 mg/Kg Rabbit.

inhalant > 31 mg/ l/4h rat.

Xylene.

oral > 2000 mg/Kg rat.

dermal > 2000 mg/Kg Rabbit.

inhalant > 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.

Sensitising effects

no danger of sensitization.

12. Ecological information

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Ecotoxicity

Distillates(petroleum, gasoline)
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

Persistence and degradability

Product is biodegradable.

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**

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. (Explosion hazard.)

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

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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
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

Labelling

Danger symbols : Xn - Harmful



Xn - Harmful

Hazardous component(s) to be indicated on label

Distillates (petroleum, gasoline), 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.

National regulations

Water contaminating class : 2 - water contaminating

16. Other information

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

10 Flammable.
11 Highly flammable.
22 Harmful if swallowed.



Safety Data Sheet

according to 2001/58/EC

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- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 51 Toxic to aquatic organisms.
- 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.
- 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.)