

Radiator Oil Cleaner Comp. 2

Print date : 15.10.2008

Product code : 644

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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 for Fuel Systems

Company/undertaking identification

Company name :	PRO-TEC Deutschland	
Street :	Großgeschwenda 51	
Place :	D-07330 Probstzella	
Telephone :	+4936735/444-0	Telefax : +4936735/444-44
Contact person :	Jens Möller, Dipl.-Chem.	
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Internet :	www.pro-tec-deutschland.de	

Further Information

Article Number: 1511, 1512, 1513, 1515, 1518

2. Hazards identification

Classification

Indications of danger : Highly flammable, Harmful, Irritant
R-phrases :
Highly flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes and skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.

3. Composition/information on ingredients

Chemical characterization (preparation)

Surface tension compounds
Detergents, Dispersants
Synthetic agent combinations

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
215-535-7	1330-20-7	xylene	30 - 35 %	Xn, Xi R10-20/21-38
265-149-8	64742-47-8	Distillates (petroleum, gasoline), hydrotreated light	10 - 25 %	Xn R65
200-661-7	67-63-0	isopropanol, isopropyl alcohol, propan-2-ol	10 - 20 %	F, Xi R11-36-67
	N/A	ketone	10 - 25 %	F, Xi R11-36-66-67
	37205-87-1	phenole, ethoxylised	1 - 5 %	Xn, Xi, N R22-41-51-53

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

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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.

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.

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 of spillages (e.g. by oil barrier).
Wipe up with absorbent material (eg. cloth, fleece).

7. Handling and storage

Handling

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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

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

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
1330-20-7	Xylene, o-, m-, p- or mixed isomers	100	441		TWA (8 h)	WEL
		150	662		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS-No.	Chemical name	Value	Parameter	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	650 mmol/mol	methyl hippuric acid	urine	Post shift

Exposure controls

Protective and hygiene measures

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 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

General information

Physical state : liquid
Colour : red
Odour : aromatic

Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point : 110 - 116 °C

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Flash point :	-5 °C
Lower explosion limits :	0,6 vol. %
Upper explosion limits :	12 vol. %
Vapour pressure :	20 hPa
(at 20 °C)	
Density (at 20 °C) :	0.78-0.82 g/cm³
Water solubility :	insoluble
(at 20 °C)	
Solubility in other solvents :	Organic solvents

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.

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.

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

Xylene.

Fish, LC50, 1-10 mg/l

Daphnia, EC50, 10-100 mg/l

Algae, IC50, 10-100 mg/l

Propan-2-ol

Fish, LC50(48h), 8970 mg/l

Daphnia, EC50, > 1000 mg/l

Algae, EC50(72h) > 1000mg/l

Bacteria, IC50, 5175 mg/l

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

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

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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. (Explosion hazard.)

14. Transport information

Land transport (ADR/RID)

UN number :	1993
ADR/RID class :	3
Classification code :	F 1
Warning plate	
Hazard-no. :	33
Hazard label :	3
ADR/RID packing group :	II
Limited quantity :	3 I

Description of the goods

Flammable liquid, n.o.s.

Inland waterways transport

Other applicable information (inland waterways transport)

No data

Marine transport

UN number :	1993
IMDG code :	3
Hazard label :	3
IMDG packing group :	II
EmS :	F-E, S-E
Limited quantity :	1 I

Description of the goods

Flammable liquid, n.o.s.

Air transport

UN/ID number :	1993
ICAO/IATA-DGR :	3
Hazard label :	3
ICAO packing group :	II
Limited quantity Passenger :	1 I
IATA-packing instructions - Passenger :	305
IATA-max. quantity - Passenger :	5 I
IATA-packing instructions - Cargo :	307
IATA-max. quantity - Cargo :	60 I

Description of the goods

Flammable liquid, n.o.s.

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15. Regulatory information

Labelling

Danger symbols :

F - Highly flammable; Xn - Harmful



F - Highly flammable

Xn - Harmful

Hazardous component(s) to be indicated on label

xylene

Distillates (petroleum, gasoline), hydrotreated light

R phrases

- | | |
|-------|---|
| 11 | Highly flammable. |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 36/38 | Irritating to eyes and skin. |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 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. |

EU regulatory information

Additional information

Contains:

15 - 30 % aliphatic hydrocarbons

> 30 % aromatic hydrocarbons

< 5 % Phenols and halogenated phenols

National regulatory information

Water contaminating class (D) : 2 - water contaminating

16. Other information

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

- | | |
|-------|---|
| 10 | Flammable. |
| 11 | Highly flammable. |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 22 | Harmful if swallowed. |
| 36 | Irritating to eyes. |
| 36/38 | Irritating to eyes and skin. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
| 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. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 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.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)