

Cetane Booster

Print date : 17.08.2007

Product code : 461

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

Identification of the substance or preparation

Cetane Booster

Use of the substance/preparation

Increase the cetane number.

Company/undertaking identification

Company name : PRO-TEC Deutschland GmbH
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Further Information

Article Number 2181

2. Hazards identification

Classification

Indications of danger : Harmful, Dangerous for the environment
R-phrases :
Harmful by inhalation.
Harmful: may cause lung damage if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical characterization (preparation)
Petroleum (Gasoline), Additives

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-149-8	64742-47-8	Distillates (petroleum, gasoline), hydrotreated light	< 70 %	Xn R65
248-363-6	27247-96-7	2-Ethyl hexyl nitrate	40 - 45 %	Xn, N R20-65-51-53

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

4. First aid measures

General information

No special measures are necessary.

After inhalation

Move victim out of danger zone. Provide fresh air. Consult physician.

After contact with skin

After contact with skin, wash immediately 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

Do not induce vomiting. Consult physician.

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5. Fire-fighting measures

Suitable extinguishing media

Water spray. Sand. Foam. Carbon dioxide. dry extinguishing powder.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special protective equipment for fire-fighters

Use appropriate respiratory protection.

Additional information

Contaminated fire-fighting water must not get into the sewerage network.

6. Accidental release measures

Personal precautions

Remove all sources of ignition. Provide adequate ventilation.

Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

Take precautionary measures against static discharges.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Suitable absorbing material: Sand Kieselguhr. Universal binding agent. Sawdust.

7. Handling and storage

Handling

Advice on safe handling

Avoid formation of fumes/aerosols.

Do not breathe gas/fumes/vapour/spray.

Do not pierce, cut up or weld unclean container.

Advice on protection against fire and explosion

When hot, product develops flammable vapors.

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. Do not store at temperatures over: 50 °C

Provide for good ventilation, when develop aerosols/mist.

Storageclass (VCI) :

3B

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Occupational exposure controls

hydrocarbons.

group 1

200 ml/m3 (ppm) 1000 mg/m3

Protective and hygiene measures

Avoid contact with skin, eye and clothing.

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Respiratory protection

Respiratory protection: not required.

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber).

Eye protection

Suitable eye protection: Wear tightly sealed safety glasses against possible splashes into the eyes.

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

9. Physical and chemical properties

General information

Physical state : liquid
Colour : colourless
Odour : aromatic

Important health, safety and environmental information

Changes in the physical state

	Test method
Boiling point :	180 - 220 °C
Flash point :	> 65 °C
Lower explosion limits :	0,73 vol. %
Upper explosion limits :	6 vol. %
Density (at 20 °C) :	0,83 - 0,84 g/cm ³
Water solubility :	insoluble

Other information

Ignition temperature : > 200 °C

10. Stability and reactivity

Conditions to avoid

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

Materials to avoid

Oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

11. Toxicological information

Acute toxicity

observations relevant to classification:

oral LD50 > 2000 mg/Kg(rat)
dermal LD50 > 2000 mg/Kg (rabbit)
inhalant LC50 > 5,5 mg/l / 4h (rat)

Corrosive and irritant effects

Irritant effect on the eye: irritant.
Irritant effect on the skin: Frequently or prolonged contact with skin may cause dermal irritation.

Carcinogenic/mutagenic/toxic effects for reproduction

No Carcinogenic, germ cell mutagen and reproduction effects

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12. Ecological information

Ecotoxicity

fish toxicity:
LC50, 20 - 200 mg/l

Bacterial toxicity:
EC50, 2 - 20 mg/l.

Persistence and degradability

Product is partially biodegradable.

Bioaccumulative potential

Low potential of bio-accumulation.

Further information

Do not empty into drains or the aquatic environment.

13. Disposal considerations

Advice on disposal

Waste disposal according to official state regulations.
Carry out under observation of official regulations covering a chemical/physical treatment plant.
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.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Do not dispose with household waste.
Do not empty into drains or the aquatic environment.
Do not pierce, cut up or weld unclean container.

14. Transport information

Land transport (ADR/RID)

UN number : 3082
ADR/RID class : 9
Warning plate
Hazard-no. : 90
Hazard label : 9
ADR/RID packing group : III
Limited quantity : 5 l

Description of the goods

environmentally hazardous substance, liquid, n.o.s.

Inland waterways transport

Remarks (inland waterways transport)

No data

Marine transport

UN number : 3082

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IMDG code : 9
 Marine pollutant : P
 Hazard label : 9
 IMDG packing group : III
 EmS : F-A, S-F
 Limited quantity : 5 l

Description of the goods

environmentally hazardous substance, liquid, n.o.s.
 marine pollutant

Air transport

UN/ID number : 3082
 ICAO/IATA-DGR : 9
 Hazard label : 9
 ICAO packing group : III
 Limited quantity Passenger : 30 Kg G
 IATA-packing instructions - Passenger : 914
 IATA-max. quantity - Passenger : Frei
 IATA-packing instructions - Cargo : 914
 IATA-max. quantity - Cargo : Frei

Description of the goods

environmentally hazardous substance, liquid, n.o.s.

15. Regulatory information

Labelling

Danger symbols : Xn - Harmful; N - Dangerous for the environment



Xn - Harmful



N - Dangerous for the environment

Hazardous component(s) to be indicated on label

Distillates (petroleum, gasoline), hydrotreated light
 2-Ethyl hexyl nitrate

R phrases

20 Harmful by inhalation.
 65 Harmful: may cause lung damage if swallowed.
 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.
 29 Do not empty into drains.
 46 If swallowed, seek medical advice immediately and show this container or label.

National regulatory information

Water contaminating class : 1 - slightly water contaminating

16. Other information

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

20 Harmful by inhalation.
 51 Toxic to aquatic organisms.
 53 May cause long-term adverse effects in the aquatic environment.

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65 Harmful: may cause lung damage if swallowed.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.)