



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Engine Flush

Print date: 29.09.2011

Product code: 248

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Engine Flush

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Cleaning agent for Engines

Details of the supplier of the safety data sheet

Company name:	PRO-TEC Deutschland		
Street:	Großgeschwenda 51		
Place:	D-07330 Probstzella		
Telephone:	+4936735/444-0	Telefax:	+4936735/444-44
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Further Information

Article Number: 3001, 1001, 1002, 1005, 1007, 1008, 1009

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Harmful

R-phrases:

Harmful: may cause lung damage if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Danger symbols: Xn - Harmful



Xn - Harmful

Hazardous components which must be listed on the label

Distillates (petroleum, gasoline), hydrotreated light

R phrases

65	Harmful: may cause lung damage if swallowed.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

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

SECTION 3: Composition/information on ingredients

Mixtures

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Chemical characterization

Anti Friction Components
Detergents, Dispersants
Synthetic agent combinations
corrosion preventing agent
Solvent mixture
Additives

Sum of ingredients:
30 - 58 %

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
265-149-8	Distillates (petroleum, gasoline), hydrotreated light	40 - 45 %
64742-47-8	Xn R10-65	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411	
265-194-3	Distillates (petroleum, gasoline), steam-cracked	20 - 25 %
64742-91-2	Xn R65	
	Asp. Tox. 1; H304	
265-191-7	Solvent naphtha (petroleum, gasoline), medium aliph., Straight run petroleum (gasoline)	10 - 15 %
64742-88-7	Xn R65	
	Asp. Tox. 1; H304	
270-729-9	Distillates (petroleum, gasoline), cracked stripped steam-cracked petroleum (gasoline) distillates, C10-12 fraction	10 - 15 %
68477-40-7	Xn R65	
	Asp. Tox. 1; H304	
265-099-7	Extracts (petroleum, gasoline), heavy naphtha solvent	10 - 15 %
64741-98-6	Xn R65	
	Asp. Tox. 1; H304	
287-477-0	Chlorparaffines C14-C28	1 - 5 %
85535-85-9	N R50-53-64-66	
	Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of 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.
Seek medical attention if problems persist.

After contact with eyes

Remove contact lenses.
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. After ingestion of absorption substances: Consult physician.

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After ingestion

Let water be swallowed in little sips (dilution effect). Consult physician.
Do not induce vomiting.

Indication of any immediate medical attention and special treatment needed

Warning about danger of aspiration.

SECTION 5: Firefighting measures

Extinguishing media

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 hazards arising from the substance or mixture

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

Advice for firefighters

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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear a self-contained breathing apparatus and chemical resistant suit.
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 case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods and material for containment and cleaning 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).

SECTION 7: Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

- Keep container tightly closed in a cool, well-ventilated place.
- Do not store at temperatures over: 50 °C
- Take precautionary measures against static discharges.

SECTION 8: Exposure controls/personal protection

Control parameters

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 (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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	liquid
Colour:	green
Odour:	aromatic

Test method

Changes in the physical state

Boiling point:	180 - 220 °C
Flash point:	65 °C
Ignition temperature:	> 200 °C
Vapour pressure: (at 20 °C)	20 hPa
Density (at 20 °C):	0,790 - 0,820 g/cm ³
Water solubility: (at 20 °C)	insoluble
Solubility in other solvents:	Organic solvents

SECTION 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.

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Incompatible materials

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

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
64742-47-8	Distillates (petroleum, gasoline), hydrotreated light				
	Acute oral toxicity	LD50	>15000 mg/kg	rat.	
	Acute dermal toxicity	LD50	3400 mg/kg	rat.	
85535-85-9	Chlorparaffines C14-C28				
	Acute oral toxicity	LD50	4000 mg/kg	rat.	
	Acute dermal toxicity	LD50	4000 mg/kg	rat.	

Irritation and corrosivity

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

Sensitizing effects

no danger of sensitization.

SECTION 12: Ecological information

Toxicity

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
64742-47-8	Distillates (petroleum, gasoline), hydrotreated light				
	Acute fish toxicity	LC50	10 mg/l	Oncorhynchus mykiss	96
	Acute algae toxicity	ErC50	4,6 mg/l	Pseudokirchneriella subcapitata	72
	Acute crustacea toxicity	EC50	10 mg/l	Daphnia magna	48

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.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

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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.)

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport

Other applicable information (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport

Other applicable information (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport

Other applicable information (air transport)

Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Contains:
> 30 % hydrocarbons, aliphatic.

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

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

- | | |
|-------|---|
| 10 | Flammable. |
| 50 | Very 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. |
| 64 | May cause harm to breastfed babies. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |

Full text of H-Statements referred to under sections 2 and 3

- | | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H362 | May cause harm to breast-fed children. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |



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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.

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