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

Product identifier
Power Steering Nano Protect

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

Use of the substance/mixture
Oil Performance Improver

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
e-mail: info@pro-tec-deutschland.com
Contact person: Jens Möller, Dipl.-Chem.
Internet: www.pro-tec-deutschland.de

Further Information
Article Number: 2161, 2162, 2168, 2167, 2165

SECTION 2: Hazards identification

Classification of the substance or mixture
Indications of danger: Harmful, Dangerous for the environment
R-phrases:
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May cause harm to breastfed babies.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.

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

R phrases
50/53 Very toxic to aquatic organisms, 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.

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.

Mixtures
### Chemical characterization

Inhibitors
- Preventing agent
- Mineral oils
- Synthetic agent combinations
- Additives

### Hazardous components

<table>
<thead>
<tr>
<th>EC No.</th>
<th>Chemical name</th>
<th>Classification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>287-477-0</td>
<td>Chlorparaffines C14-C28</td>
<td>N; R50-53-64-66; Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410</td>
<td>30 - 35%</td>
</tr>
<tr>
<td>85535-85-9</td>
<td>n-paraffine C10 - C13</td>
<td>Xn; R65; Asp. Tox. 1; H304</td>
<td>5 - 10%</td>
</tr>
<tr>
<td>64771-72-8</td>
<td>N/A Alcyl dithio phosphate</td>
<td>N/A; Aquatic Chronic 2; H411</td>
<td>&lt; 1 %</td>
</tr>
</tbody>
</table>

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

### SECTION 4: First aid measures

#### Description of first aid measures

**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**
- Rinse mouth thoroughly with water.
- Do not induce vomiting.
- Consult physician.

**Most important symptoms and effects, both acute and delayed**
- Frequently or prolonged contact with skin may cause dermal irritation.
- Irritation of eyes: Irritant effect possible.

**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).
- Water spray.

**Extinguishing media which must not be used for safety reasons**
- High power water jet.
**Power Steering Nano Protect**

**Print date:** 27.10.2011  
**Product code:** 750  
**Page 3 of 6**

### 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.
- High skid risk because of leaking or spilled product.

#### Environmental precautions
- 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
- Prevent spreading of spillages (e.g. by oil barrier).
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### SECTION 7: Handling and storage

#### Precautions for safe handling
- **Advice on safe handling**
  - Material must only be handled in closed installations or systems.
  - Avoid contact with skin and eyes.
  - Avoid oil mist

**Conditions for safe storage, including any incompatibilities**

#### Requirements for storage rooms and vessels
- Keep container tightly closed in a cool, well-ventilated place.
- Do not store at temperatures over: 50 °C

#### Advice on storage compatibility
- Should be stored separately from oxidizing agents.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

#### Exposure controls

**Protective and hygiene measures**
- Take off immediately all contaminated clothing
- 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 protective clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| Physical state: | viscous |
| Colour: | brown |
| Odour: | mild |

Test method

Changes in the physical state

Flash point: > 100 °C

Lower explosion limits:
Upper explosion limits:
Density (at 20 °C): 0.89 - 0.92 g/cm³
Water solubility: insoluble
Solubility in other solvents: Organic solvents

SECTION 10: Stability and reactivity

Conditions to avoid
No decomposition when used as intended.
Keep at temperature not exceeding 50 °C.

Incompatible materials
Oxidizing agents. acid, concentrated.

Hazardous decomposition products
No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects
**Acute toxicity**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>h</th>
</tr>
</thead>
<tbody>
<tr>
<td>85535-85-9</td>
<td>Chlorparaffines C14-C28</td>
<td>Acute oral toxicity</td>
<td>LD50</td>
<td>4000 mg/kg</td>
<td>rat.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute dermal toxicity</td>
<td>LD50</td>
<td>4000 mg/kg</td>
<td>rat.</td>
<td></td>
</tr>
<tr>
<td>64771-72-8</td>
<td>n-paraffine C10 - C13</td>
<td>Acute oral toxicity</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>rat.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute dermal toxicity</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rabbit.</td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td>Alcyl dithio phosphate</td>
<td>Acute oral toxicity</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>rat.</td>
<td></td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>h</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Alcyl dithio phosphate</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>1-10 mg/l</td>
<td>Fish</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>1-10 mg/l</td>
<td>Daphnia magna</td>
<td>48</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria).

**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.

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

**Contaminated packaging**

Container must be completely emptied.

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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**Other applicable information (land transport)**

Not a hazardous material with respect to transportation regulations.
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:
< 5 % phosphates
5 - 15 % hydrocarbons, aliphatic.
15 - 30 % hydrocarbons, halogenated.

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
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51 Toxic to aquatic organisms.
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
H304 May be fatal if swallowed and enters airways.
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.

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.)