

Safety Data Sheet

according to 1907/2006/EC, Article 31


Printing date 03.12.2008

Revision: 03.12.2008

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

- Product details
- Trade name: **Chain & Engine Degreaser Spray**
- Article number: PW.20.00
- Application of the substance / the preparation: Cleaner solvent
- Manufacturer/Supplier: Putoline Oil
Dollegoorweg 15
NL-7602 EC ALMELO
Tel.: +31 (0)546 818165
- Further information obtainable from: Product safety department - vib@putoline.com
- Information in case of emergency: +31 (0)546 818165 (9 AM to 4 PM, Monday to Friday)

2 Hazards identification

- Hazard description:  F+ Extremely flammable
- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.


R 12 Extremely flammable.

R 53 May cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.
- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- GHS label elements:  **Danger**
2.3/1 - Extremely flammable aerosol.
- Prevention: 4.1/4 - May cause long lasting harmful effects to aquatic life.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid release to the environment.
- Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
- Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- Chemical characterization
- Description: Active substance with propellant

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· Dangerous components:			
	Alkanes (C9-C12, iso)	Xn; R 53-65-66 Danger: 3.10/1 Warning: 2.6/3 4.1.C/4	50-100%
CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12 Danger: 2.2/1 Warning: 2.5/L	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12 Danger: 2.2/1 Warning: 2.5/L	10-25%
CAS: 37205-87-1	isononylphenol, geëthoxyleerd (3-7EO)	Xi, N; R 36/38-51/53 Warning: 3.2/2, 3.3/2A 4.1.C/2	1-2.5%
· Regulation (EC) No 648/2004 on detergents / Labelling for contents			
aliphatic hydrocarbons			≥ 30%
non-ionic surfactants			< 5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:** Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
Remove from the water surface (e.g. skim or suck off).
- **Additional information:** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 Do not spray onto a naked flame or any incandescent material.

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
Do not seal receptacle gas tight.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter AX
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Solvent resistant gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44°C

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· Flash point:	-97°C
· Ignition temperature:	200°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	10.9 Vol %
· Vapour pressure at 20°C:	8300 hPa
· Density at 20°C:	0.661 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	92.8 %
· Solids content:	1.8 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: Reacts with strong oxidizing agents.
- Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

37205-87-1 isononylphenol, geëthoxyleerd (3-7EO)

Oral	LD50	>2000 mg/kg (rat)
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- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

12 Ecological information

- Information about elimination (persistence and degradability):
- Other information: The product is difficultly biodegradable.
- Ecotoxicological effects:

- Aquatic toxicity:

37205-87-1 isononylphenol, geëthoxyleerd (3-7EO)

EC50/48 h	1-10 mg/l (daphnia)
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- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): -
- UN-Number: 1950
- Packaging group: -
- Hazard label 2.1
- Description of goods: 1950 AEROSOLS

- Maritime transport IMDG:



- IMDG Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: No
- Proper shipping name: AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable

- UN "Model Regulation": UN1950, AEROSOLS, 2.1

15 Regulatory information

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



F+ Extremely flammable

- Risk phrases:

12 Extremely flammable.
53 May cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.

- Safety phrases:

2 Keep out of the reach of children.
23 Do not breathe aerosol.
24 Avoid contact with skin.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

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- **Special labelling of certain preparations:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
 - 12 Extremely flammable.
 - 36/38 Irritating to eyes and skin.
 - 51/53 Toxic 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.
- **Department issuing MSDS:** Product safety department.
- **Contact:** Product safety department
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 - ICAO: International Civil Aviation Organization
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- **Sources**
 - 67/548/EEC - Dangerous Substances Directive
 - 99/45/EEC - Dangerous Preparations Directive