

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2015

Version number 2

Revision: 22.10.2015

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

· **1.1 Product identifier**

· **Trade name:** Liquid Dirt Remover Spray

· **Article number:** PK.10.11

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**  
 SU21 Consumer uses: Private households / general public / consumers  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Process category**  
 PROC7 Industrial spraying  
 PROC11 Non industrial spraying

· **Application of the substance / the mixture**  
 Cleaner solvent

· **1.3 Details of the supplier of the safety data sheet**

· **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

· **1.4 Emergency telephone number:** +31 (0)546 818165 (9 AM to 4 PM, Monday to Friday)

NL - National Poison Information Centre (NVIC):  
 Tel.nr.: +31 30 - 2748888 - Only for the purpose of informing medical personnel in case of acute intoxications.

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

· **2.2 Label elements**

· **Labelling according to**

· **Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS08

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

Alkanes (C11-C12), iso-alkanes, <2% aromates

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

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- P251 Do not pierce or burn, even after use.  
 P301+P310 IF SWALLOWED: Immediately call a doctor.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:** EUH066 Repeated exposure may cause skin dryness or cracking.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Active substance with propellant

• <b>Dangerous components:</b>		
CAS: 90622-57-4 EC number: 918-167-1 Reg.nr.: 01-2119472146-39	Alkanes (C11-C12), iso-alkanes, <2% aromates ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	50-100%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane ⚠ Flam. Gas 1, H220	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	10-25%
CAS: 37205-87-1 Polymer	isononylphenol, geëthoxyleerd (3-7EO) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2,5%
• <b>Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>		
aliphatic hydrocarbons		≥ 30%
non-ionic surfactants		< 5%

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

## SECTION 4: First aid measures

- **4.1 Description of 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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.  
Wear fully protective suit.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** 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.

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- Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Remove from the water surface (e.g. skim or suck off).
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Pressurised 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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

### · Ingredients with limit values that require monitoring at the workplace:

#### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1,3-diene)
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- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- **Respiratory protection:**
- **Protection of hands:**



Wear gloves for the protection against chemicals according to EN 374.

Solvent resistant gloves

- **Material of gloves** Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.35$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material** For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

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- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· <b>General Information</b></li> <li>· <b>Appearance:</b> <ul style="list-style-type: none"> <li>Form: Aerosol</li> <li>Colour: According to product specification</li> </ul> </li> <li>· <b>Odour:</b> Characteristic</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Change in condition</b></li> <li>  Boiling point/Boiling range: -44 °C</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Flash point:</b> -97 °C</li> <li>· <b>Flammability (solid, gaseous):</b> Not applicable.</li> <li>· <b>Self-igniting:</b> Product is not selfigniting.</li> <li>· <b>Danger of explosion:</b> Explosive with or without contact with air.</li> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li>Lower: 0,6 Vol %</li> <li>Upper: 10.9 Vol %</li> </ul> </li> <li>· <b>Vapour pressure at 20 °C:</b> 8300 hPa</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Density at 20 °C:</b> 0.661 g/cm<sup>3</sup></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with water:</b> Not miscible or difficult to mix.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Partition coefficient (n-octanol/water):</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>Organic solvents: 98,2 %</li> </ul> </li> <li>· <b>9.2 Other information</b> No further relevant information available.</li> </ul>	

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

### LD/LC50 values relevant for classification:

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

Oral | LD50 | >2000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

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## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

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

EC50 (48 h) 1-10 mg/l (daphnia)

#### · 12.2 Persistence and degradability

No further relevant information available.

#### · Other information:

The product is difficultly biodegradable.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · Additional ecological information:

#### · 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.

#### · 12.5 Results of PBT and vPvB assessment

#### · PBT:

Not applicable.

#### · vPvB:

Not applicable.

#### · 12.6 Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · 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.

## SECTION 14: Transport information

### · 14.1 UN-Number

#### · ADR,ADN, IMDG, IATA

UN1950

### · 14.2 UN proper shipping name

#### · ADR/ADN

1950 AEROSOLS

#### · IMDG

AEROSOLS

#### · IATA

AEROSOLS, flammable

### · 14.3 Transport hazard class(es)

#### · ADR/ADN



#### · Class

2 5F Gases.

#### · Label

2.1

#### · IMDG, IATA



#### · Class

2.1

#### · Label

2.1

### · 14.4 Packing group

#### · ADR,ADN, IMDG, IATA

Void

### · 14.5 Environmental hazards:

#### · Marine pollutant:

No

### · 14.6 Special precautions for user

#### · Danger code (Kemler):

Warning: Gases.

#### · EMS Number:

-

#### · Stowage Code

F-D,S-U  
SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre:  
Category A. For AEROSOLS with a capacity above 1 litre:  
Category B. For WASTE AEROSOLS: Category C, Clear

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<ul style="list-style-type: none"> <li>· <b>Segregation Code</b></li> </ul>	of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR/ADN</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	1L Code: E0 Not permitted as Excepted Quantity 2 D
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1950 AEROSOLS, 2.1

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances**
  - **ANNEX I** None of the ingredients is listed.
  - **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **VOC-EU** 649.1 g/l
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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 phrases**
  - H220 Extremely flammable gas.
  - H226 Flammable liquid and vapour.
  - H280 Contains gas under pressure; may explode if heated.
  - H304 May be fatal if swallowed and enters airways.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H411 Toxic to aquatic life with long lasting effects.
  - H413 May cause long lasting harmful effects to aquatic life.
- **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)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative

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Flam. Gas 1: Flammable gases, Hazard Category 1  
Aerosol 1: Flammable aerosols, Hazard Category 1  
Press. Gas C: Gases under pressure: Compressed gas  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

**· Sources**

EC/453-2010