

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.10.2011 Version number 7 Revision: 21.10.2011

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

· Product identifier

· Trade name: Dirt Remover Spray

· Article number: PK.10.11

· 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)

· Process category PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

· Application of the substance /

the preparation
 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

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

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R38: Irritating to skin.



F+; Extremely flammable

R12: Extremely flammable.

*

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

 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.

Warning! Pressurized container.

Has a narcotizing effect.

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• Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· Label elements

· 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:







Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

• Risk phrases: 12 Extremely flammable.

38 Irritating to skin.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

• Safety phrases: 2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe fumes/aerosol.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.

· 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 u se. Do not spray on a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description**: Active substance with propellant

· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane ►+ R12 ♦ Flam. Gas 1, H220; ♦ Press. Gas, H280	25-50%
CAS: 142-82-5 EINECS: 205-563-8	heptane Xn R65; Xi R38; F R11; N R50/53 R67 → Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ►+ R12 ♦ Flam. Gas 1, H220; ♦ Press. Gas, H280	10-25%
CAS: 108-87-2 EINECS: 203-624-3	methylcyclohexane Xn R65; Xi R38; F R11; N R51/53 R67 ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane Xn R65; Xi R38; F R11; N R50/53 R67 ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	0.1-1.0%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents
aliphatic hydrocarbons

atic hydrocarbons $\geq 30\%$ (Contd. on page 3)

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

4 First aid measures

· Description of first aid measures

In case of unconsciousness place patient stably in side position for transportation. · After inhalation:

· After skin contact: Immediately wash with water and soap and rinse thoroughly. · After eye contact: Rinse opened eye for several minutes under running water. · After swallowing: Do not induce vomiting; call for medical help immediately.

· Information for doctor:

· Most important symptoms and

effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special

treatment needed No further relevant information available.

5 Firefighting measures

· Extinguishing media

· Suitable extinguishing agents: Water haze

Fire-extinguishing powder

Carbon dioxide Alcohol resistant foam

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

· Special hazards arising from

the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters

Wear self-contained respiratory protective device. · Protective equipment:

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

· Environmental precautions:

Wear protective equipment. Keep unprotected persons away. 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.

· 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).

· 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.

7 Handling and storage

· Handling:

· Precautions 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.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures

exceeding 50℃, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· Conditions for safe storage, including any incompatibilities

· 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.

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· Further information about

storage conditions: Keep container tightly sealed.

Do not seal receptacle gas tight.

Protect from heat and direct sunlight.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· Additional information about

design of technical facilities: No further data; see item 7.

· Control parameters

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

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

142-82-5 heptane

WEL Long-term value: 500 ppm

110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm

· Additional information: The lists valid during the making were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and

hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection: Filter A/P2

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. Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:



Protective gloves

Solvent resistant gloves

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

The exact break trough 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

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Aerosol
Colour: Blue

· Odour: Characteristic

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Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 -44℃

 Flash point:
 -97℃

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 215℃

· **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:
 1.1 Vol %

 Upper:
 10.9 Vol %

 · Vapour pressure at 20℃:
 4 bar

 · Density at 20℃:
 0.7 g/cm³

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Segregation coefficient (n-octanol/water): Not determined.

· Solvent content:

Organic solvents: 80.35 %

Other information
 No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

· Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous

reactions

Conditions to avoid

Incompatible materials:

Reacts with strong oxidizing agents.

No further relevant information available.

No further relevant information available.

 $\cdot \ \text{Hazardous decomposition}$

products: No dangerous decomposition products known.

*11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

108-87-2 methylcyclohexane

Oral LD50 2250 mg/kg (mus)

110-82-7 cyclohexane

Oral LD50 12705 mg/kg (rat)

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological

information: The product shows the following dangers according to the calculation method of the

General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

*12 Ecological information

· Toxicity

· Aquatic toxicity:	
142-82-5 heptane	
EC50 (24 h) >10 mg/l (daphnia)	

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LC50 (48 h) 4924 mg/l (fish) 108-87-2 methylcyclohexane

LC50 (48 h) 5 mg/l (fish)

Persistence and degradability
 Other information:
 No further relevant information available.
 The product is difficultly biodegradable.

· Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Ecotoxical effects:

· Remark: Very toxic for fish

· Additional ecological information:

· General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· 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.

14 Transport information

· UN-Number

· ADR, IMDG, IATA UN1950

· UN proper shipping name

· **ADR** 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

· IMDG AEROSOLS, MARINE POLLUTANT

· IATA AEROSOLS, flammable

· Transport hazard class(es)

· ADR





· Class 2 5F Gases.

· Label 2.1

· IMDG



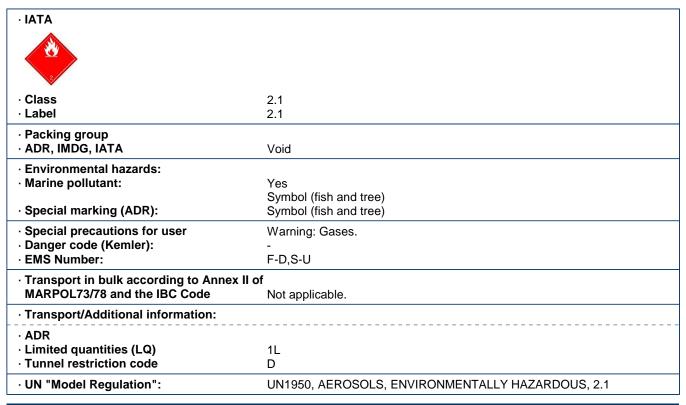
· Class 2.1 · Label 2.1

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*15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:

Waterhazard class:
 Chemical safety assessment:
 Water hazard class 2 (Self-assessment): hazardous for water.
 A Chemical Safety Assessment has not been carried out.

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.

H225 Highly 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.

H336 May cause drowsiness or dizziness.

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.

H411 Toxic to aquatic life with long lastin

R11 Highly flammable. R12 Extremely flammable. R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS:
 Contact:
 Product safety department.
 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 international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

67/548/EEC - Dangerous Substances Directive 99/45/EEC - Dangerous Preparations Directive

· * Data compared to the previous version altered.

· Sources