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

1.1. Product identifier
   Smell Remover (German: Geruchsvernichter)

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

Use of the substance/mixture
   Perfumes, fragrances

Uses advised against
   Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name: POLYTOP GmbH
Street: Langenselbolder Str. 8
Place: D-63543 Neuberg
Telephone: +49-6183-80014-0
Fax: +49-6183-80014-14
Email (Contact person): info@polytop.de
Internet: www.polytop.de
Responsible Department: Vergiftungsinformationszentrale Österreich Tel. +43 (0) 1 406 43 43

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
   Flammable liquid: Flam. Liq. 3
   Skin corrosion/irritation: Skin Irrit. 2
   Respiratory or skin sensitisation: Skin Sens. 1
   Aspiration hazard: Asp. Tox. 1
   Hazardous to the aquatic environment: Aquatic Acute 1
   Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:
   May be fatal if swallowed and enters airways.
   Causes skin irritation.
   May cause an allergic skin reaction.
   Very toxic to aquatic life with long lasting effects.
   In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling
   (R)-p-Mentha-1,8-dien (orangen terpenes, LIMONENE)

Signal word: Danger

Pictograms:

Hazard statements
   H226 Flammable liquid and vapour.
Smell Remover (German: Geruchsvernichter)

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear suitable gloves.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special labelling of certain mixtures
EUH066 Repeated exposure may cause skin dryness or cracking.

Additional advice on labelling
Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

2.3. Other hazards
In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
see below Labelling for contents according to regulation (EC) No. 648/2004, non-ionic surfactants 5-15%, cationic surfactants <5%, Additional information: -

Hazardous components

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No.</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene, d-limonene</td>
<td>&gt;50 %</td>
<td>227-813-5</td>
<td>601-029-00-7</td>
<td></td>
<td>Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H226 H315 H317 H400 H410</td>
</tr>
<tr>
<td>139-07-1</td>
<td>Dodecyldimethylbenzylammonium chloride</td>
<td>&lt; 0,5 %</td>
<td>205-351-5</td>
<td></td>
<td></td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302 H312 H314 H400</td>
</tr>
<tr>
<td>106-22-9</td>
<td>Fragrance Citronellol</td>
<td>0,01-0,1 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5392-40-5</td>
<td>Fragrance Geraniol</td>
<td>0,01-0,1 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>0,01-0,1 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004
5 % - 15 % non-ionic surfactants, < 5 % cationic surfactants, perfumes (Citronellol, Geraniol, Coumarin).
SECTION 4: First aid measures

4.1. Description of first aid measures

General information
If victim is at risk of losing consciousness, position and transport on their side. Remove affected person from the danger area and lay down.

After inhalation
Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin
After cleaning apply high-fat content skin care cream. Take off immediately all contaminated clothing, including underwear and shoes.

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion
Do NOT induce vomiting. Have victim drink large quantities of water, with active charcoal if possible.

4.2. Most important symptoms and effects, both acute and delayed

Following inhalation:

4.3. Indication of any immediate medical attention and special treatment needed

Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
- Alcohol resistant foam.
- Extinguishing powder.
- Water spray.
- Atomized water.
- Carbon dioxide (CO2).

Unsuitable extinguishing media
- High power water jet.
- High power water jet.

5.2. Special hazards arising from the substance or mixture

- Hydrocarbons.
- Pyrolysis products, toxic.
- The vapours are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information
- In case of fire and/or explosion do not breathe fumes.
- Burning produces heavy smoke.
- Use water spray jet to protect personnel and to cool endangered containers.
- Contaminated fire-fighting water must not get into the sewerage network.
- Remove product from area of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.2. Environmental precautions
Remove all sources of ignition.
Ventilate affected area.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed containers for disposal.
Ventilate affected area.

6.4. Reference to other sections
Vapours are heavier than air and will spread at floor level.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Keep container tightly closed.

Advice on protection against fire and explosion
Keep away from sources of ignition. - No smoking.
Take precautionary measures against static discharges.
The vapours are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility
Do not store together with: Oxidizing agents.

Further information on storage conditions
Recommended storage temperature: up to °C: 30

7.3. Specific end use(s)
Product-type 1: Human hygiene

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls
Protective and hygiene measures
Do not breathe gas/vapour/aerosol.
Avoid contact with eyes.
Work in well-ventilated zones or use proper respiratory protection.
Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

Eye/face protection
Tightly sealed safety glasses.

Hand protection
Tested protective gloves are to be worn:
PVC (Polyvinyl chloride). NBR (Nitrile rubber). PVC (Polyvinyl chloride). PVA (Polyvinyl alcohol). Viton

Unsuitable material: CR (polychloroprenes, Chloroprene rubber). Butyl rubber. NR (Natural rubber (Caoutchouc), Natural latex).
Smell Remover (German: Geruchsvernichter)

Skin protection
Body protection: not required.

Respiratory protection
Respiratory protection necessary at: insufficient ventilation. Insufficient absorption. high concentration.
Handling larger quantities.
Full-/Half-/Quarter-Masks (DIN EN 136/140).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: clear light yellow
Odour: fruity

Test method
pH-Value: not applicable

Changes in the physical state
Initial boiling point and boiling range: 170-180 °C
Flash point: 50 (TCC) °C

Explosive properties
In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: 0,7 vol. %
Upper explosion limits: 6,1 vol. %
Ignition temperature: 255 °C

Oxidizing properties
not oxidizing.

Vapour pressure: 1,3 hPa
(at 20 °C)
Density (at 20 °C): 0,86 g/cm³
Water solubility: emulsifiable
Viscosity / dynamic: <7 mPa·s
Solvent content: 89%

9.2. Other information
This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

SECTION 10: Stability and reactivity

10.1. Reactivity
No risks worthy of mention.

10.2. Chemical stability
The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No risks worthy of mention.

10.4. Conditions to avoid
In use, may form flammable/explosive vapour-air mixture.

10.5. Incompatible materials
Oxidizing agents, strong.
10.6. Hazardous decomposition products
Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
May be fatal if swallowed and enters airways. (pulmonary oedema.)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene, d-limonene</td>
<td>oral</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rat</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td>139-07-1</td>
<td>Dodecyldimethylbenzylammonium chloride</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE 1100 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Irritant effect on the eye: mild irritant.
Irritating to skin.

Sensitising effects
May cause an allergic skin reaction. (perfumes SECTION 3: Composition / information on ingredients)

STOT-repeated exposure
Repeated exposure may cause skin dryness or cracking.

Practical experience
Has de-greasing effect on the skin.
After cleaning apply high-fat content skin care cream.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene, d-limonene</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>0.7 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>0.42 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Abiotic degradation in Air.
Doesn’t get into the sewage water as long as the process is carried out according to regulations.

12.3. Bioaccumulative potential
No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene, d-limonene</td>
<td>4.23</td>
</tr>
</tbody>
</table>
12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
Very toxic to aquatic organisms.

Further information
Mechanical separation in a purification plant is possible.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Consult manufacturer about disposal.
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products
140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures
Classified as hazardous waste.

Waste disposal number of contaminated packaging
150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packing
Water with tenside additive.
Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2052
14.2. UN proper shipping name: DIPENTEN
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3

Inland waterways transport (ADN)

14.1. UN number: UN 2052
14.2. UN proper shipping name: DIPENTENE
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3
Smell Remover (German: Geruchsvernichter)

Classification code: F1
Limited quantity: 5 L

Other applicable information (inland waterways transport)
E1

Marine transport (IMDG)
14.1. UN number: UN 2052
14.2. UN proper shipping name: DIPENTENE
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3

Marine pollutant: P
Special Provisions: -
Limited quantity: 5 L
EmS: F-E, S-E

Other applicable information (marine transport)
E1

Air transport (ICAO)
14.1. UN number: UN 2052
14.2. UN proper shipping name: DIPENTENE
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3

Limited quantity Passenger: 10 L
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

Other applicable information (air transport)
E1
: Y344

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: yes

14.6. Special precautions for user
Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information
2004/42/EC (VOC): Volatile organic compounds (VOC) in percentage by weight: 89

Additional information
648/2004: chapter 3 chemical characterization (mixture)

National regulatory information
Employment restrictions: Observe restrictions to employment for juveniles according to the ‘juvenile work protection guideline’ (94/33/EC).
Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Relevant H and EUH statements (number and full text)
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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