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

1.1. Product identifier
Rhepanol-Grundierung Precol

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

Use of the substance/mixture
priming

Uses advised against
Only use for the intended purpose.
The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name: FDT Flachdach Technologie GmbH & Co. KG
Street: Eisenbahnstraße 6-8
Place: D-68199 Mannheim
Telephone: +49 (621) 8504100
Fax: +49 (621) 8504200

Contact person: Marco Anderer
Telephone: +49 (621) 8504563
Email: marco.anderer@fdt.de

Internet: http://www.fdt.de

Responsible Department: Arbeitssicherheit und Umweltschutz

1.4. Emergency telephone number:
Poison Control Center (Mayence, GER)
+49 (0)6131-19240 (24h - de, en)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard categories:
- Flammable liquid: Flam. Liq. 3
- Serious eye damage/eye irritation: Eye Dam. 1
- Specific target organ toxicity - single exposure: STOT SE 3
- Hazardous to the aquatic environment: Aquatic Chronic 2
- Hazard Statements:
  - Flammable liquid and vapour.
  - Causes serious eye damage.
  - May cause drowsiness or dizziness.
  - Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label
- Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- Cement, portland, chemicals

Signal word: Danger

Pictograms:

Hazard statements
- H226 Flammable liquid and vapour.
- H318 Causes serious eye damage.
Precautionary statements

H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container in accordance with national disposal regulations.

Special labelling of certain mixtures

EUE066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.
The components in this mixture do not meet the criteria for classification as PBT or vPvB.

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC No</td>
<td>Index No</td>
</tr>
<tr>
<td></td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>50-&lt;100 %</td>
</tr>
<tr>
<td></td>
<td>928-136-4</td>
<td>01-2119484809-19</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 EUH066</td>
<td></td>
</tr>
<tr>
<td></td>
<td>65997-15-1 Cement, portland, chemicals</td>
<td>2,5-&lt;10 %</td>
</tr>
<tr>
<td></td>
<td>266-043-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335</td>
<td></td>
</tr>
</tbody>
</table>

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

Further Information

There is the following note: The classification of "Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)" as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 wt% benzene (EINECS No 200-753-7). If the substance is not classified as a carcinogen, so at least the safety (102) -260-262-301 + 310-331 (Table 3.1) or the S phrases (2) -23-24-62 (Table 3.2) apply. This note applies only to certain complex oil-derived substances in Part 3 of this regulation.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of troubles or persistent symptoms, consult a doctor/physician.
Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.
After inhalation
Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion
Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting. Aspiration hazard.

4.2. Most important symptoms and effects, both acute and delayed
Following eye contact: Irritation and reddening. Causes serious eye damage.
Following inhalation: May cause drowsiness or dizziness.
After skin contact: Repeated exposure may cause skin dryness or cracking.
In case of ingestion: If the material gets into the lungs, the following signs and symptoms may occur: tussive irritation, gasping, wheezing, dyspnea, respiratory tract blocked by mucus, short breath and/or fever. Impairment of the respiratory organs may also occur after a few hours after the exposure.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Vapours may form explosive mixtures with air. Vapours are heavier than air and will spread at floor level. Thermal decomposition can lead to harmful gases and vapours.

5.3. Advice for firefighters
Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Treat the recovered material as prescribed in the section on waste disposal.
6.4. Reference to other sections
Safe handling: see section 7
Personal precautions: refer to section 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care.

Advice on protection against fire and explosion
Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)
priming

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>Portland cement, respirable dust</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>44 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>71 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>26 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>26 mg/kg bw/day</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection
Tightly fitting safety glasses with side shields.
Hand protection
Protect skin by using skin protective cream. Wear suitable gloves. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable material: NBR (Nitrile rubber).

Skin protection
Full cover clothing covering arms and legs.

Respiratory protection
Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>paste-like</td>
<td>n/a</td>
</tr>
<tr>
<td>Colour</td>
<td>black</td>
<td>n/a</td>
</tr>
<tr>
<td>Odour</td>
<td>like: gasoline</td>
<td>n/a</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>80 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>25 °C</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Flammable gas</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Non-flammable gas</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>0,6 vol. %</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>6,5 vol. %</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>270 °C</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Gas</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>20 hPa</td>
<td></td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>0,9 g/cm³</td>
<td>DIN 53217</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
<td>n/a</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Viscosity / dynamic</td>
<td>50000 mPa·s</td>
<td>ISO 2555</td>
</tr>
<tr>
<td>Viscosity / kinematic</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Solvent content</td>
<td>62%</td>
<td>n/a</td>
</tr>
</tbody>
</table>
9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactivity under regular conditions.

10.2. Chemical stability
The product is stable under regular conditions.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials
Oxidizing agents, strong.

10.6. Hazardous decomposition products
Thermal decomposition can lead to harmful gases and vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes serious eye damage.

Sensitising effects
Based on available data, the classification criteria are not met.

STOT-single exposure
May cause drowsiness or dizziness. (Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

Severe effects after repeated or prolonged exposure
Repeated exposure may cause skin dryness or cracking.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): Readily biodegradable (according to OECD criteria).
12.3. Bioaccumulative potential
   No data available.

12.4. Mobility in soil
   No data available.

12.5. Results of PBT and vPvB assessment
   The components in this mixture do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects
   No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
   Advice on disposal
   Disposal according to official regulations.
   Consult the local waste disposal expert about waste 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
   080111  WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS
   (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS;
   wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic
   solvents or other dangerous substances
   Classified as hazardous waste.

   Waste disposal number of contaminated packaging
   150110  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE
   CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal
   packaging waste); packaging containing residues of or contaminated by dangerous substances
   Classified as hazardous waste.

   Contaminated packaging
   Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the
   substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  UN 1263
14.2. UN proper shipping name:  Paint
14.3. Transport hazard class(es):  III
14.4. Packing group:

   Hazard label:  3

   Classification code:  F1
   Special Provisions:  163 367 640E 650
   Limited quantity:  5 L
   Excepted quantity:  E1
   Transport category:  3
   Hazard No:  30
   Tunnel restriction code:  D/E
### Inland waterways transport (ADN)

14.1. UN number: UN 1263  
14.2. UN proper shipping name: Paint  
14.3. Transport hazard class(es): III  
14.4. Packing group: 3  

Hazard label: 3  

Classification code: F1  
Special Provisions: 163 367 640E 650  
Limited quantity: 5 L  
Excepted quantity: E1

### Marine transport (IMDG)

14.1. UN number: UN 1263  
14.2. UN proper shipping name: Paint  
14.3. Transport hazard class(es): III  
14.4. Packing group: 3  

Hazard label: 3  

Special Provisions: 163, 223, 367, 955  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-E

### Air transport (ICAO)

14.1. UN number: UN 1263  
14.2. UN proper shipping name: Paint  
14.3. Transport hazard class(es): III  
14.4. Packing group: 3  

Hazard label: 3  

Special Provisions: A3 A72 A192  
Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 220 L

### 14.5. Environmental hazards
14.6. Special precautions for user

No special precautions known.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

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): 547,2 g/l (60,80%)

Additional information

- Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable
- Regulation (EC) No. 648/2004 (Detergents regulation): not applicable
- REGULATION (EC) No 850/2004 on persistent organic pollutants: not applicable
- REGULATION (EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).
- This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none
- This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Hydrocarbons, C8-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

SECTION 16: Other information

Changes

Version 1.00 - Creation - 25.01.2013
Version 1.01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision - 23.07.2015

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)
- CAS: Chemical Abstracts Service
- EC: Effective Concentration
- EG: European Community (Europäische Gemeinschaft)
- EN: European Norm
- IATA: International Air Transport Association
- IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
Relevant H- and EUH-phrases (Number and full text)

<table>
<thead>
<tr>
<th>Number</th>
<th>Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
</tbody>
</table>

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

REACheck Solutions GmbH, Mühlstraße 94a, 63741 Aschaffenburg, Germany
Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@reacheck.eu,
www.reacheck.eu

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