



# PENETRATING AND RELEASE FLUID

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 15/06/2015

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### PENETRATING AND RELEASE FLUID

K008

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

### 1.1. Product identifier

Product form : Mixture  
Product name : PENETRATING AND RELEASE FLUID  
Product code : K008  
Type of product : Aerosol  
Vaporizer : Aerosol

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : penetrating and release lubricant

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

SELDEN RESEARCH LIMITED

STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM  
Tel: 01298 26226 Fax: 01298 26540 Email: safety@selden.co.uk

### 1.4. Emergency telephone number

Emergency number : Mon to Fri 8.30am to 5.00pm - 01298 26226

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H336

Full text of H-phrases: see section 16

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07

Signal word (CLP) :

Danger

Hazardous ingredients :

propan-2-ol, isopropyl alcohol, isopropanol

Hazard statements (CLP) :

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
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  
P251 - Do not pierce or burn, even after use  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P405 - Store locked up  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

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## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

## 3.1. Substance

Not applicable

## 3.2. Mixture

| Name                                                                       | Product identifier                                                                                    | %       | Classification according to Directive 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP]                               |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics       | (CAS No) 64742-48-9<br>(EC no) 918-481-9<br>(EC index no) 649-327-00-6<br>(REACH-no) 01-2119457273-39 | 30 - 60 | R10                                              | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304                                                       |
| propan-2-ol, isopropyl alcohol, isopropanol                                | (CAS No) 67-63-0<br>(EC no) 200-661-7<br>(EC index no) 603-117-00-0<br>(REACH-no) 01-2119457558-25    | 15 - 30 | F; R11<br>Xi; R36<br>R67                         | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                   |
| propane<br>substance with national workplace exposure limit(s) (DK, IE)    | (CAS No) 74-98-6<br>(EC no) 200-827-9<br>(EC index no) 601-003-00-5                                   | 5 - 15  | F+; R12                                          | Flam. Gas 1, H220                                                                             |
| butane<br>substance with national workplace exposure limit(s) (DK, GB, IE) | (CAS No) 106-97-8<br>(EC no) 203-448-7<br>(EC index no) 601-004-00-0                                  | 1 - 5   | F+; R12                                          | Flam. Gas 1, H220<br>Press. Gas                                                               |
| PEG-2 OLEAMINE                                                             | (CAS No) 25307-17-9<br>(EC no) 246-807-3                                                              | 1 - 5   | Not classified                                   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 |

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Explosion risk in case of fire.

## 5.3. Advice for firefighters

No additional information available

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

No additional information available

## 6.1.2. For emergency responders

No additional information available

## 6.2. Environmental precautions

No additional information available

## 6.3. Methods and material for containment and cleaning up

No additional information available

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**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Do not spray on an open flame or other ignition source.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Keep away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible products : Oxidizing agent. Strong acids. Strong bases.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

| <b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b> |                                               |                                                                          |
|--------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------|
| Denmark                                                      | Local name                                    | Isopropylalkohol (2005)                                                  |
| Denmark                                                      | Grænseværdie (langvarig) (mg/m³)              | 490 mg/m³                                                                |
| Denmark                                                      | Grænseværdie (langvarig) (ppm)                | 200 ppm                                                                  |
| Germany                                                      | TRGS 900 Limitation of exposure peaks (mg/m³) | 1000 mg/m³                                                               |
| Ireland                                                      | Local name                                    | Isopropyl alcohol                                                        |
| Ireland                                                      | OEL (8 hours ref) (ppm)                       | 200 ppm                                                                  |
| Ireland                                                      | OEL (15 min ref) (ppm)                        | 400 ppm                                                                  |
| Ireland                                                      | Notes (IE)                                    | Sk                                                                       |
| Netherlands                                                  | Grenswaarde TGG 8H (mg/m³)                    | 650 mg/m³                                                                |
| Netherlands                                                  | Grenswaarde TGG 15MIN (mg/m³)                 | 0 mg/m³                                                                  |
| United Kingdom                                               | Local name                                    | Propan-2-ol                                                              |
| United Kingdom                                               | WEL TWA (mg/m³)                               | 999 mg/m³                                                                |
| United Kingdom                                               | WEL TWA (ppm)                                 | 400 ppm                                                                  |
| United Kingdom                                               | WEL STEL (mg/m³)                              | 1250 mg/m³                                                               |
| United Kingdom                                               | WEL STEL (ppm)                                | 500 ppm                                                                  |
| <b>propane (74-98-6)</b>                                     |                                               |                                                                          |
| Denmark                                                      | Local name                                    | Propan                                                                   |
| Denmark                                                      | Grænseværdie (langvarig) (mg/m³)              | 1800 mg/m³                                                               |
| Denmark                                                      | Grænseværdie (langvarig) (ppm)                | 1000 ppm                                                                 |
| Ireland                                                      | Local name                                    | Propane                                                                  |
| Ireland                                                      | OEL (8 hours ref) (ppm)                       | 1000 ppm                                                                 |
| Ireland                                                      | Notes (IE)                                    | Asphx                                                                    |
| <b>butane (106-97-8)</b>                                     |                                               |                                                                          |
| Denmark                                                      | Local name                                    | n-Butan                                                                  |
| Denmark                                                      | Grænseværdie (langvarig) (mg/m³)              | 1200 mg/m³                                                               |
| Denmark                                                      | Grænseværdie (langvarig) (ppm)                | 500 ppm                                                                  |
| Ireland                                                      | Local name                                    | Butane                                                                   |
| Ireland                                                      | OEL (8 hours ref) (ppm)                       | 1000 ppm                                                                 |
| United Kingdom                                               | Local name                                    | Butane                                                                   |
| United Kingdom                                               | WEL TWA (mg/m³)                               | 1450 mg/m³                                                               |
| United Kingdom                                               | WEL TWA (ppm)                                 | 600 ppm                                                                  |
| United Kingdom                                               | WEL STEL (mg/m³)                              | 1810 mg/m³                                                               |
| United Kingdom                                               | WEL STEL (ppm)                                | 750 ppm                                                                  |
| United Kingdom                                               | Remark (WEL)                                  | Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene) |

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**8.2. Exposure controls**

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Materials for protective clothing | : Not required for normal conditions of use |
| Hand protection                   | : Protective gloves                         |
| Eye protection                    | : Safety glasses                            |
| Skin and body protection          | : Not required for normal conditions of use |
| Respiratory protection            | : Not required for normal conditions of use |

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                            |                     |
|--------------------------------------------|---------------------|
| Physical state                             | : Liquid            |
| Appearance                                 | : Aerosol.          |
| Colour                                     | : Colourless.       |
| Odour                                      | : characteristic.   |
| Odour threshold                            | : No data available |
| pH                                         | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : 0.74              |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

No additional information available

**10.3. Possibility of hazardous reactions**

No additional information available

**10.4. Conditions to avoid**

Direct sunlight. Heat. Open flame.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available

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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

|                                                    |                                      |
|----------------------------------------------------|--------------------------------------|
| Acute toxicity                                     | : Not classified                     |
| Skin corrosion/irritation                          | : Causes skin irritation.            |
| Serious eye damage/irritation                      | : Causes serious eye irritation.     |
| Respiratory or skin sensitisation                  | : Not classified                     |
| Germ cell mutagenicity                             | : Not classified                     |
| Carcinogenicity                                    | : Not classified                     |
| Reproductive toxicity                              | : Not classified                     |
| Specific target organ toxicity (single exposure)   | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified                     |
| Aspiration hazard                                  | : Not classified                     |

## PENETRATING &amp; RELEASING OIL

|           |         |
|-----------|---------|
| Vaporizer | Aerosol |
|-----------|---------|

## SECTION 12: Ecological information

## 12.1. Toxicity

## Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (64742-48-9)

|                                |                                   |
|--------------------------------|-----------------------------------|
| LC50 fishes 1                  | > 1000 mg/l                       |
| EC50 other aquatic organisms 1 | > 1000 mg/l EC50 waterflea (48 h) |
| EC50 other aquatic organisms 2 | > 1000 mg/l IC50 alga (72 h) mg/l |

## propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

|                                |                                   |
|--------------------------------|-----------------------------------|
| LC50 fishes 1                  | 9640 mg/l                         |
| EC50 other aquatic organisms 1 | 13299 mg/l EC50 waterflea (48 h)  |
| EC50 other aquatic organisms 2 | > 1000 mg/l IC50 alga (72 h) mg/l |

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

## propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

|         |      |
|---------|------|
| Log Pow | 0.14 |
|---------|------|

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste disposal recommendations : Do not pierce or burn, even after use.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1950 |
| UN-No. (IMDG) | : 1950 |
| UN-No.(IATA)  | : 1950 |

## 14.2. UN proper shipping name

|                                       |                              |
|---------------------------------------|------------------------------|
| Proper Shipping Name (ADR)            | : AEROSOLS                   |
| Proper Shipping Name (IMDG)           | : AEROSOLS                   |
| Proper Shipping Name (IATA)           | : AEROSOLS, FLAMMABLE        |
| Transport document description (ADR)  | : UN 1950 AEROSOLS, 2.1, (D) |
| Transport document description (IMDG) | : UN 1950 AEROSOLS, 2.1      |

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**14.3. Transport hazard class(es)****ADR**

Transport hazard class(es) (ADR) : 2.1

Danger labels (ADR) : 2.1

:

**IMDG**

Transport hazard class(es) (IMDG) : 2.1

Danger labels (IMDG) : 2.1

:

**IATA**

Transport hazard class(es) (IATA) : 2.1

Hazard labels (IATA) : 2.1

:

**14.4. Packing group**

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP02

Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9

Transport category (ADR) : 2

Special provisions for carriage - Packages (ADR) : V14

Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12

Special provisions for carriage - Operation (ADR) : S2

Tunnel restriction code (ADR) : D

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**- Transport by sea**

|                                   |                               |
|-----------------------------------|-------------------------------|
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 959 |
| Limited quantities (IMDG)         | : SP277                       |
| Excepted quantities (IMDG)        | : E0                          |
| Packing instructions (IMDG)       | : P207, LP02                  |
| Special packing provisions (IMDG) | : PP87, L2                    |
| EmS-No. (Fire)                    | : F-D                         |
| EmS-No. (Spillage)                | : S-U                         |
| Stowage category (IMDG)           | : None                        |

**- Air transport**

|                                              |                    |
|----------------------------------------------|--------------------|
| PCA Excepted quantities (IATA)               | : E0               |
| PCA Limited quantities (IATA)                | : Y203             |
| PCA limited quantity max net quantity (IATA) | : 30kgG            |
| PCA packing instructions (IATA)              | : 203              |
| PCA max net quantity (IATA)                  | : 75kg             |
| CAO packing instructions (IATA)              | : 203              |
| CAO max net quantity (IATA)                  | : 150kg            |
| Special provisions (IATA)                    | : A145, A167, A802 |
| ERG code (IATA)                              | : 10L              |

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

|          |                   |
|----------|-------------------|
| IBC code | : Not applicable. |
|----------|-------------------|

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

**15.1.2. National regulations****Germany**

|                                                                            |                                                                                                        |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| VwVwS Annex reference                                                      | : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 4) |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)                                     |

**Denmark**

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product |
|-----------------------------------|-----------------------------------------------------------------------------|

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of R-, H- and EUH-phrases:

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                               |
| Aerosol 1           | Aerosol, Category 1                                             |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Asp. Tox. 1         | Aspiration hazard, Category 1                                   |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                   |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                   |
| Flam. Gas 1         | Flammable gases, Category 1                                     |
| Flam. Liq. 2        | Flammable liquids, Category 2                                   |
| Flam. Liq. 3        | Flammable liquids, Category 3                                   |
| Press. Gas          | Gases under pressure                                            |
| Skin Corr. 1C       | Skin corrosion/irritation, Category 1C                          |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                           |

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|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H220      | Extremely flammable gas                                                |
| H222      | Extremely flammable aerosol                                            |
| H225      | Highly flammable liquid and vapour                                     |
| H226      | Flammable liquid and vapour                                            |
| H229      | Pressurised container: May burst if heated                             |
| H302      | Harmful if swallowed                                                   |
| H304      | May be fatal if swallowed and enters airways                           |
| H314      | Causes severe skin burns and eye damage                                |
| H315      | Causes skin irritation                                                 |
| H318      | Causes serious eye damage                                              |
| H319      | Causes serious eye irritation                                          |
| H336      | May cause drowsiness or dizziness                                      |
| H400      | Very toxic to aquatic life                                             |

SDS EU

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*