### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1. Product identifier**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Penetrating Spray</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Penetrant/Lubricant Spray</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Pitchmark Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit 8, Ram Hill Business Park</td>
</tr>
<tr>
<td></td>
<td>Coalpit Heath</td>
</tr>
<tr>
<td></td>
<td>Bristol</td>
</tr>
<tr>
<td></td>
<td>BS36 2TX</td>
</tr>
<tr>
<td></td>
<td>Tel: +44 (0)1454 776666</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.pitchmarkltd.com">www.pitchmarkltd.com</a></td>
</tr>
</tbody>
</table>

**1.4. Emergency telephone number**

+44 (0)7831 300868

### SECTION 2: HAZARDS IDENTIFICATION

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

|------------------------------|----------------------|

**Human health**

Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Environment**

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**Physical and Chemical Hazards**

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

**2.2. Label elements**

**Labelling**

- Extremely flammable

**Risk Phrases**

- R12 Extremely flammable.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R66 Repeated exposure may cause skin dryness or cracking.

**Safety Phrases**

- A1 Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- A2 Do not spray on a naked flame or any incandescent material.
- S2 Keep out of the reach of children.
- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe vapour/spray.
- S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- S51 Use only in well-ventilated areas.

**2.3. Other hazards**
### 3.2. Mixtures

#### Benzophenone
- **CAS-No.:** 119-61-9
- **EC No.:**
- **Registration Number:** 01-2119899704-20

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td>N;R50/53.</td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
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</table>

#### BUTANE
- **CAS-No.:** 106-97-8
- **EC No.:** 203-448-7
- **Registration Number:** Exempt under REACH

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Gas 1 - H220</td>
<td>F+;R12</td>
</tr>
</tbody>
</table>

#### Cedarwood Oil (Virginian)
- **CAS-No.:**
- **EC No.:**

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td>Xn,R65.</td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td>N;R50/53.</td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
</tr>
</tbody>
</table>

#### ISOBUTANE
- **CAS-No.:** 75-28-5
- **EC No.:** 200-857-2
- **Registration Number:** Exempt under REACH

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Gas 1 - H220</td>
<td>F+;R12</td>
</tr>
</tbody>
</table>

#### MONOCYCLIC TERPENE
- **CAS-No.:** 5989-27-5
- **EC No.:**
- **Registration Number:** 01-2119529223-47

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
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<tbody>
<tr>
<td>Flam. Liq. 3 - H226</td>
<td>Xi;R38.</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>R10.</td>
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#### Odourless Kerosene
- **CAS-No.:**
- **EC No.:** 926-141-6
- **Registration Number:** 01-2119456620-43

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
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<tbody>
<tr>
<td>EUH066</td>
<td>Xn,R65.</td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td>R66.</td>
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</tbody>
</table>
Penetrating Spray

PROPNANE  10-30%

CAS-No.: 74-98-6       EC No.: 200-827-9        Registration Number: Exempt under REACH

Classification (EC 1272/2008)  Flam. Gas 1 - H220
Classification (67/548/EEC)  F+:R12

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Move the exposed person to fresh air at once.

Inhalation
In case of inhalation of spray mist: Move person into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion
Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.

Skin contact
Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
Extremely flammable. Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Aerosol cans may explode in a fire.

Specific hazards
Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable absorbent material.

6.3. Methods and material for containment and cleaning up

Penetrating Spray

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer’s recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray near a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Extremely flammable. Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANE</td>
<td>WEL</td>
<td>600 ppm</td>
<td>750 ppm</td>
<td></td>
</tr>
<tr>
<td>ISOBUTANE</td>
<td>WEL</td>
<td>800 ppm</td>
<td>No std.</td>
<td></td>
</tr>
<tr>
<td>MONOCYCLIC TERPENE</td>
<td></td>
<td></td>
<td></td>
<td>No std.</td>
</tr>
<tr>
<td>Odourless Kerosene</td>
<td>OEL</td>
<td></td>
<td>1200 mg/m3</td>
<td></td>
</tr>
<tr>
<td>PROPANE</td>
<td>SUP</td>
<td>ppm</td>
<td>ppm</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.
OEL = Occupational Exposure Limit.

Ingredient Comments
WEL = Workplace Exposure Limits SUP = Supplier's recommendation.

8.2. Exposure controls

Engineering measures
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

Respiratory equipment
In case of inadequate ventilation use suitable respirator.

Hand protection
Due to the packaging form, aerosol, risk of skin contact is small. For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection
Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures
Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

Personal protection
When using do not smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Aerosol.
Odour: Characteristic.
Flash point (°C): < -40
Auto Ignition Temperature (°C): 410 - 580
Flammability Limit - Lower(%): 1.8
Flammability Limit - Upper(%): 9.5
Penetrating Spray

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability
Heat, sparks, flames.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

10.6. Hazardous decomposition products
In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information
Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Inhalation
In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

Skin contact
Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

Eye contact
Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings
In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).

Route of entry
Inhalation.

Target Organs
Central nervous system  Respiratory system, lungs

Medical Symptoms
Skin irritation. Arrhythmia, (deviation from normal heart beat). Vapours may cause drowsiness and dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
ENVIRONMENTAL HAZARDS: This product has not been tested but contains ingredients which are harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.

12.1. Toxicity

12.2. Persistence and degradability
Penetrating Spray

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Do not puncture or incinerate even when empty.

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Empty containers must not be burned because of explosion hazard.

SECTION 14: TRANSPORT INFORMATION

General
This product is packed in accordance with the Limited Quantity Provisions of CDG CPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

14.1. UN number

UN No. (ADR/RID/ADN) 1950
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class 2, 5F
ADR/RID/ADN Class Class 2.1: Flammable gases.
ADR Label No. 3
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user
Penetrating Spray

EMS 2-13
Hazard No. (ADR) 23 Flammable gas.
Tunnel Restriction Code (D)

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

**SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Statutory Instruments

Approved Code Of Practice

Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

National Regulations

15.2. Chemical Safety Assessment

**SECTION 16: OTHER INFORMATION**

<table>
<thead>
<tr>
<th>SDS No.</th>
<th>10788</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Data Sheet Status</td>
<td>Approved.</td>
</tr>
<tr>
<td>Date</td>
<td>24.07.2013</td>
</tr>
</tbody>
</table>

**Risk Phrases In Full**

<table>
<thead>
<tr>
<th>Risk Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R12</td>
<td>Extremely flammable.</td>
</tr>
<tr>
<td>R10</td>
<td>Flammable.</td>
</tr>
<tr>
<td>R52/53</td>
<td>Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</td>
</tr>
<tr>
<td>R65</td>
<td>Harmful: may cause lung damage if swallowed.</td>
</tr>
<tr>
<td>R38</td>
<td>Irritating to skin.</td>
</tr>
<tr>
<td>R66</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</td>
</tr>
</tbody>
</table>

**Hazard Statements In Full**

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td>H220</td>
<td>Extremely flammable gas.</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
</tbody>
</table>

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.