SAFETY DATA SHEET
Bitumen KP 60/70

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

1.1 Product identifier
Product name: Bitumen KP 60/70
Viscosity or Type: 60/70
Material uses: Paving grade bitumen
EC number: 232-490-9

REACH Registration number

<table>
<thead>
<tr>
<th>Registration number</th>
<th>Legal entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-2119480172-44</td>
<td>-</td>
</tr>
</tbody>
</table>

CAS number: 8052-42-4

1.2 Relevant identified uses of the substance or mixture and uses advised against
Not applicable.

1.3 Details of the supplier of the safety data sheet
Manufacturer / Distributor: Kuwait Petroleum Corporation
P.O. Box 26565 Safat
13126 Safat
Kuwait
Tel. +965 1858585, Fax 2423371/2467159/246
E-mail address of person responsible for this SDS: SDSinfo@Q8.com, communication preferably in English only.

1.4 Emergency telephone number
Europe: 0044 (0) 1235 239 670
Global (English only): 0044 (0) 1865 407 333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition: UVCB
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

Ingredients of unknown toxicity: None.
Ingredients of unknown ecotoxicity: None.

Classification according to Directive 67/548/EEC [DSD]
Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements
Hazard pictograms: 
Signal word: No signal word.
Hazard statements: No known significant effects or critical hazards.
Precautionary statements
Prevention: Not applicable.
Response: Not applicable.

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**SECTION 2: Hazards identification**

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Safety Data Sheet available for professional user on request.

**Special packaging requirements**

- Containers to be fitted with child-resistant fastenings : Not applicable.
- Tactile warning of danger : Not applicable.

**2.3 Other hazards**

- Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : No. PBT: Specified

- Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : No. vPvB: Specified

- Other hazards which do not result in classification : Hazardous concentrations of hydrogen sulphide (H2S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas. Defatting to the skin.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : UVCB

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>REACH #: 01-2119480172-44 EC: 232-490-9 CAS: 8052-42-4</td>
<td>100</td>
<td>Not classified.</td>
<td>[']</td>
</tr>
<tr>
<td>hydrogen sulphide</td>
<td>EC: 231-977-3 CAS: 7783-06-4 Index: 016-001-00-4</td>
<td>&lt;0.1</td>
<td>F+; R12 T+; R26 N; R50</td>
<td>[A]</td>
</tr>
</tbody>
</table>

The mineral oils in the product contain < 3% DMSO extract (IP 346).

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

**Type**

- [''] Substance
- [A] Constituent
- [B] Impurity
- [C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.
SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Hot material: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure to hydrogen sulphide is suspected or cannot be excluded, obtain medical attention IMMEDIATELY. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Hot product: The area should be cooled IMMEDIATELY under running water for up to 10 minutes. To avoid further damage to the skin no attempt should be made to remove bitumen FIRMLY adhering to the skin. If adverse skin effects follow, refer for medical attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Heated material can cause thermal burns.

Inhalation: No known significant effects or critical hazards.

Skin contact: May be harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation. Heated material can cause thermal burns.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: Adverse symptoms may include the following:
- irritation
- dryness
- cracking

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO\textsubscript{2}, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Date of issue/Date of revision: 18-11-2011.
SECTION 5: Firefighting measures

| **Hazards from the substance or mixture** | : No specific fire or explosion hazard. |
| **Hazardous thermal decomposition products** | : Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Hydrogen sulphide |

5.3 Advice for firefighters

**Special protective actions for fire-fighters** | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |

**Special protective equipment for fire-fighters** | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Hot material: Avoid contact with eyes, skin and clothing. |

**For emergency responders** | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

6.2 Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

6.3 Methods and materials for containment and cleaning up

**Small spill** | : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |

**Large spill** | : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |

6.4 Reference to other sections | : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

**Protective measures** | : Put on appropriate personal protective equipment (see Section 8). Hazardous concentrations of hydrogen sulphide (H2S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas. |

Date of issue/Date of revision | : 18-11-2011. 4/12
SECTION 7: Handling and storage

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities: Store between the following temperatures: 140 to 180°C (284 to 356°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Provide adequate ventilation.

7.3 Specific end use(s) Recommendations: Not available.

Industrial sector specific solutions: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt hydrogen sulphide</td>
<td>ACGIH TLV (United States, 2/2010). Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 0.5 mg/m³, (as benzene soluble aerosol) 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</td>
</tr>
<tr>
<td></td>
<td>TWA: 7 mg/m³ 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 ppm 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>STEL: 14 mg/m³ 15 minute(s).</td>
</tr>
<tr>
<td></td>
<td>STEL: 10 ppm 15 minute(s).</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls: Product may release hydrogen sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water and unintentional releases should be made to help determine controls appropriate to local circumstances. Use only with adequate ventilation.

Individual protection measures

Date of issue/Date of revision: 18-11-2011.
SECTION 8: Exposure controls/personal protection

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable gloves tested to EN374.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards: When handling hot material, wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Solid. [at 20°C]
Appearance: Viscous liquid. at °C: 70
Color: Brown. to Black. [Dark]
Odor: Characteristic.
Odor threshold: Not applicable.
pH: Not applicable.
Melting point/freezing point: Not available.
Initial boiling point and boiling range: >320°C
Flash point: Open cup: >230°C [ASTM D92.]
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Upper/lower flammability or explosive limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 1
Solubility(ies): Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: >320°C
Decomposition temperature: >320°C
Viscosity (40°C): Not available.

Date of issue/Date of revision: 18-11-2011.
SECTION 9: Physical and chemical properties

Explosive properties : Not applicable.
Oxidizing properties : Not applicable.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
Strong oxidizing materials

10.6 Hazardous decomposition products : Decomposition products may include the following materials:
sulfur oxides
Hydrogen sulphide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>LD50 Dermal</td>
<td>Rabbit - Male, Female</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>hydrogen sulphide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>444 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>700 mg/m3</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available.

Irritation/Corrosion

Skin : Non-irritant to skin.
Eyes : Non-irritating to the eyes.

Sensitization

Skin : Not sensitizing

Mutagenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Experiment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>-</td>
<td>Experiment: In vivo Subject: Mammalian-Animal Cell: Germ</td>
<td>Negative</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available.

Carcinogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Negative - Inhalation - TC</td>
<td>Rat - Male, Female</td>
<td>103.9 mg/m³</td>
<td>104 weeks</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available.

Reproductive toxicity

Date of issue/Date of revision : 18-11-2011.
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Maternal toxicity</th>
<th>Fertility</th>
<th>Development toxin</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Negative</td>
<td>Negative</td>
<td>Negative</td>
<td>Rat - Male, Female</td>
<td>Inhalation: 30 mg/m³</td>
<td>28 days; 6 hours per day</td>
</tr>
</tbody>
</table>

### Conclusion/Summary: Not available.

### Teratogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Negative - Inhalation</td>
<td>Rat - Male, Female</td>
<td>30 mg/m³</td>
<td>28 days; 6 hours per day</td>
</tr>
</tbody>
</table>

### Conclusion/Summary: Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

**Inhalation**: No known significant effects or critical hazards.

**Skin contact**: May be harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation. Heated material can cause thermal burns.

**Ingestion**: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: No specific data.

**Inhalation**: No specific data.

**Skin contact**: Adverse symptoms may include the following:
- irritation
- dryness
- cracking

**Ingestion**: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects**: Not available.

**Potential delayed effects**: Not available.

#### Long term exposure

**Potential immediate effects**: Not available.

**Potential delayed effects**: Not available.

### Potential chronic health effects

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Chronic NOAEL Dermal</td>
<td>Rabbit - Male, Female</td>
<td>2000 mg/kg</td>
<td>28 days; 3 days per week</td>
</tr>
<tr>
<td></td>
<td>Chronic NOAEL Inhalation Dusts and mists</td>
<td>Rat - Male, Female</td>
<td>103.9 mg/l</td>
<td>2 years; 5 days per week</td>
</tr>
</tbody>
</table>

### Conclusion/Summary: Not available.

**General**: No known significant effects or critical hazards.

### Date of issue/Date of revision: 18-11-2011.
SECTION 11: Toxicological information

- **Carcinogenicity**: No known significant effects or critical hazards.
- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: No known significant effects or critical hazards.
- **Developmental effects**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt hydrogen sulphide</td>
<td>Acute EC50 &gt;1000 mg/l Fresh water</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;1000 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;1000 mg/l Fresh water</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &gt;1000 mg/l Fresh water</td>
<td>Daphnia</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 62 ug/L Fresh water</td>
<td>Crustaceans - Gammarus pseudolimnaeus - 11 mm</td>
<td>2 days</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &lt;2 ug/L Fresh water</td>
<td>Fish - Perca flavescens - Yolk-sac fry</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Not available.

### 12.2 Persistence and degradability

Conclusion/Summary : Not applicable

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

- **Soil/water partition coefficient (KOC)** : Not available.
- **Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

- **PBT** : No.
  - PBT: Specified
- **vPvB** : No.
  - vPvB: Specified

### 12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

Product

Date of issue/Date of revision : 18-11-2011.
**Bitumen KP 60/70**

**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe**

**SECTION 13: Disposal considerations**

**Methods of disposal**
- The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Hazardous waste**
- Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**European waste catalogue (EWC)**

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 01 17</td>
<td>bitumen</td>
</tr>
<tr>
<td>17 03 02</td>
<td>bituminous mixtures other than those mentioned in 17 03 01</td>
</tr>
</tbody>
</table>

**Packaging**

**Methods of disposal**
- The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions**
- This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3257</td>
<td>UN3257</td>
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<td>UN3257</td>
<td>UN3257</td>
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</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEVATED TEMPERATURE LIQUID, N.O.S.</td>
<td>ELEVATED TEMPERATURE LIQUID, N.O.S.</td>
<td>ELEVATED TEMPERATURE LIQUID, N.O.S.</td>
<td>Elevated temperature liquid, n.o.s.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
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<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
</table>

**Additional information**

- **Hazard identification number**: 99
- **Limited quantity**: LQ0
- **Special provisions**: 274 580 643
- **Tunnel code**: D
- **Emergency schedules (EmS)**: F-A, _S-P_

**Passenger and Cargo Aircraft**
- Quantity limitation: Forbidden
- Packaging instructions: Forbidden
- **Cargo Aircraft Only**
  - Quantity limitation: Forbidden
  - Packaging instructions: Forbidden

**Date of issue/Date of revision**: 18-11-2011.
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Bitumen KP 60/70

SECTION 14: Transport information

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

Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

National Inventory List

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Europe inventory: All components are listed or exempted.
Canada inventory: All components are listed or exempted.

Black List Chemicals: Not listed
Priority List Chemicals: Not listed
Integrated pollution prevention and control list (IPPC) - Air: Not listed
Integrated pollution prevention and control list (IPPC) - Water: Not listed

International regulations

Chemical Weapons Convention List Schedule I Chemicals: Not listed
Chemical Weapons Convention List Schedule II Chemicals: Not listed
Chemical Weapons Convention List Schedule III Chemicals: Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

Date of issue/Date of revision: 18-11-2011.
SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements:
- H220  Extremely flammable gas.
- H280  Contains gas under pressure; may explode if heated.
- H330  Fatal if inhaled.
- H400  Very toxic to aquatic life.

Full text of classifications [CLP/GHS]:
- Acute Tox. 2, H330  ACUTE TOXICITY: INHALATION - Category 2
- Aquatic Acute 1, H400  AQUATIC TOXICITY (ACUTE) - Category 1
- Flam. Gas 1, H220  FLAMMABLE GASES - Category 1
- Press. Gas Comp. Gas,  GASES UNDER PRESSURE - Compressed gas
- H280

Full text of abbreviated R phrases:
- R12-  Extremely flammable.
- R26-  Very toxic by inhalation.
- R50-  Very toxic to aquatic organisms.

Full text of classifications [DSD/DPD]:
- F+ - Extremely flammable
- T+ - Very toxic
- N - Dangerous for the environment

Notice to reader:
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.