

## SafetyData Sheet

# MATERIAL SAFETY DATA SHEET

## Bitumen 60/70

---

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

|                                              |   |                                                        |
|----------------------------------------------|---|--------------------------------------------------------|
| <b>Material Name</b>                         | : | <b>Bitumen 60/70</b>                                   |
| <b>Recommended Use / Restrictions of Use</b> | : | Paving grade bitumen for road paving.                  |
| <b>Manufacturer/ Supplier</b>                | : | New Horizon Impex FZE<br>E1-22, Ajman Free Zone<br>UAE |
| <b>Telephone</b>                             | : | +971 586756877                                         |
| <b>Local Contact</b>                         | : |                                                        |
| <b>Telephone</b>                             | : | +971 586756877                                         |
| <b>Email</b>                                 | : | newhorizonimpexfze@gmail.com                           |
| <b>Website</b>                               | : | www.newhorizonimpexfze.com                             |
| <b>Emergency Telephone Number</b>            | : | +971 586756877                                         |

---

### 2. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

|                                     |   |                                                                                         |
|-------------------------------------|---|-----------------------------------------------------------------------------------------|
| <b>GHS Classification</b>           | : | NOT HAZARDOUS                                                                           |
| <b>GHS Label Elements</b>           | : |                                                                                         |
| <b>Signal Words</b>                 | : | No signal word                                                                          |
| <b>GHS Hazard Statements</b>        | : | PHYSICAL HAZARDS:<br>Not classified as a physical hazard under GHS criteria.            |
|                                     | : | HEALTH HAZARDS:<br>Not classified as a health hazard under GHS criteria.                |
|                                     | : | ENVIRONMENTAL HAZARDS:<br>Not classified as an environmental hazard under GHS criteria. |
| <b>GHS Precautionary Statements</b> | : | PREVENTION:<br>No precautionary phrases.                                                |

## SafetyData Sheet

|                                                            |   |                                        |
|------------------------------------------------------------|---|----------------------------------------|
|                                                            | : | RESPONSE:<br>No precautionary phrases. |
|                                                            | : | STORAGE:<br>No precautionary phrases.  |
|                                                            | : | DISPOSAL:<br>No precautionary phrases. |
| <b>Symbol(s) :</b>                                         | : | No symbol                              |
| <b>Other Hazards which do not result in Classification</b> | : | No other hazards apply.                |

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                                |   |                                                         |
|--------------------------------|---|---------------------------------------------------------|
| <b>Preparation description</b> | : | A blend of components derived from crude petroleum oil. |
|--------------------------------|---|---------------------------------------------------------|

---

### 4. FIRST AID MEASURES

|                            |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Information</b> | : | DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Inhalation</b>          | : | If inhalation of mists, fumes or vapour causes irritation to the nose or throat, remove to fresh air. If rapid recovery does not occur, obtain medical attention. Casualties suffering ill effects as a result of exposure to hydrogen sulphide should be removed to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardiopulmonary Resuscitation (CPR) as required and transport to the nearest medical facility.                                |
| <b>Skin Contact</b>        | : | If contact with hot product, cool the burn area by flushing with large amounts of water. Do not attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available. Transport to the nearest medical facility for additional treatment. It should be noted this product contracts on cooling. Where a limb is encased, care should be taken to avoid the development of a tourniquet effect. In the event of this occurring the adhering product must be softened and/or split to prevent restriction of blood flow. All burns should receive medical attention. |
| <b>Eye Contact</b>         | : | Hot product - If contact with hot product, cool the burn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Safety Data Sheet

area by flushing with large amounts of water. Do not attempt to remove anything from the burn area or apply burn creams or ointments.

Cover the burn area loosely with a sterile dressing, if available.

Transport to the nearest medical facility for additional treatment. All burns should receive medical attention.

Cold product - Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**Ingestion** : Under normal conditions of use, this is not expected to be a primary route of exposure.

**Immediate medical attention, special treatment** Do not attempt to remove the product from the skin as it provides an airtight sterile covering, which will eventually fall away with the scab as the burn heals. If removal is attempted, mineral oil (not mineral spirits) or a mineral oil based ointment may be applied to help soften the product to facilitate removal.  
Hydrogen sulphide (H<sub>2</sub>S) - CNS asphyxiant. May cause rhinitis, bronchitis and occasionally pulmonary oedema after severe exposure. CONSIDER: Oxygen therapy. Consult a Poison Control Center for guidance.

---

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

**Suitable Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media** : Do not use water in a jet.

**Protective Equipment & Precautions for Fire Fighters** : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

---

### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal.

**Personal Precautions, Protective Equipment and Emergency Procedures** : Avoid contact with skin, eyes and clothing. Hot product should be handled so that there is no risk of burns. Use compressed air or fresh air respiratory equipment in confined spaces.

**Safety Data Sheet**

- Environmental Precautions** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Methods and Material for Containment and Clean Up** : Small spillage:  
Allow product to cool and solidify. Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations. Large spillage:  
Prevent from spreading by making a barrier with sand, earth or other containment material. Treat residues as for small spillage.
- Additional Advice** : Local authorities should be advised if significant spillages cannot be contained.

**7. HANDLING AND STORAGE**

- General Precautions** : Avoid contact with hot liquid to prevent thermal burns.
- Precautions for Safe Handling** : For quality, health and safety reasons do not exceed the recommended storage and handling temperature. Clean, dry and heat resistant hoses (free of twists, etc.) should be used.  
Do not use steam to empty pipelines and hoses. Use compressed air to blow product from the system or apply a vacuum to suck the product from the system. Do not use solvents to clear obstructions of pipelines.
- Other Advice** : Not applicable.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational Exposure Limits**

| Material          | Source | Type        | ppm | mg/ m3 | Notation |
|-------------------|--------|-------------|-----|--------|----------|
| Hydrogen Sulphide | NZ OEL | TWA         | 10  | 14     |          |
|                   | NZ OEL | STEL        | 15  | 21     |          |
| Asphalt, fumes    | NZ OEL | TWA [Fume.] |     | 5      |          |

**Biological Exposure Index (BEI) - See reference for full details**

Data not available

## Safety Data Sheet

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate Engineering Controls</b> | : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.<br>Appropriate measures include: Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.<br>Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.<br>Eye washes and showers for emergency use. |
| <b>Individual Protection Measures</b>   | : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Respiratory Protection</b>           | : No respiratory protection is ordinarily required under normal conditions of use. Use self contained breathing apparatus in places where hydrogen sulphide vapours may accumulate.                                                                                                                                                                                                                                                                                                           |
| <b>Hand Protection</b>                  | : When handling heated product wear heat resistant gloves.<br>Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact. Always seek advice from glove suppliers.                                                                                                                                                                                                                                                                                   |
| <b>Eye Protection</b>                   | : For normal operations with hot material wear safety glasses with visor.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protective Clothing</b>              | : For normal operations with hot material wear heat resistant coveralls, (with cuffs over gloves and legs over boots), and heavy-duty boots, e.g. leather for heat resistance. The use of a neck apron is recommended.                                                                                                                                                                                                                                                                        |
| <b>Thermal Hazards</b>                  | : Data not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Environmental Exposure Controls</b>  | : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.                                                                                                                                                                                                                                                                                                                                                    |

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
| <b>Appearance</b>                              | : Brown to black. Liquid at high temperatures. |
| <b>Odour</b>                                   | : Characteristic                               |
| <b>Odour threshold</b>                         | : Data not available                           |
| <b>pH</b>                                      | : Not applicable                               |
| <b>Initial Boiling Point and Boiling Range</b> | : Data not available                           |
| <b>Softening point</b>                         | : 49/56 D-36                                   |

## Safety Data Sheet

|                                                        |   |                       |
|--------------------------------------------------------|---|-----------------------|
| <b>Flash point</b>                                     | : | > 250 °C Min.         |
| <b>Upper / lower Flammability or Explosion limits</b>  | : | Data not available    |
| <b>Auto-ignition temperature</b>                       | : | > 300 °C / 572 °F     |
| <b>Vapour pressure</b>                                 | : | Not applicable.       |
| <b>Relative Density</b>                                | : | Data not available    |
| <b>Density</b>                                         | : | 1.01/1.06 D-70/D-3289 |
| <b>Water solubility</b>                                | : | Negligible.           |
| <b>Solubility in other solvents</b>                    | : | Soluble.              |
| <b>n-octanol/water partition coefficient (log Pow)</b> | : | Data not available    |
| <b>Dynamic viscosity</b>                               | : | Data not available    |
| <b>Vapour density (air=1)</b>                          | : | Not applicable.       |
| <b>Penetration</b>                                     | : | 60 - 70 D-70          |
| <b>Evaporation rate (nBuAc=1)</b>                      | : | Not applicable.       |
| <b>Hygroscopicity</b>                                  | : | Negligible.           |
| <b>Decomposition Temperature</b>                       | : | Data not available    |
| <b>Flammability</b>                                    | : | Data not available    |

---

### 10. STABILITY AND REACTIVITY

|                                           |   |                                                                                                                                    |
|-------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical Stability</b>                 | : | Stable under normal conditions of use.                                                                                             |
| <b>Possibility of Hazardous Reactions</b> | : | Data not available                                                                                                                 |
| <b>Conditions to Avoid</b>                | : | Heating above the maximum recommended storage and handling temperature, will cause degradation and evolution of flammable vapours. |
| <b>Incompatible Materials</b>             | : | Do not allow molten material to contact water or                                                                                   |

## SafetyData Sheet

liquids as this can cause violent eruptions, splatter hot material, or ignite flammable material. Reacts with strong oxidising agents. Avoid contamination of thermal insulation near hot surfaces by oil and bitumen and replace lagging where necessary, with a nonabsorbent type of insulation. Self -heating, leading to autoignition at the surfaces of porous or fibrous materials impregnated with bitumen or condensates from bituminous fumes, can occur at temperatures below 100°C.

---

### 11. TOXICOLOGICAL INFORMATION

|                                          |   |                                                                                                                                                                          |
|------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Basis for Assessment</b>              | : | Toxicological data have not been determined specifically for this product. Information given is based on data on the components and the toxicology of similar products.  |
| <b>Likely Routes of Exposure</b>         | : | Inhalation is not expected to be a relevant route of exposure except under conditions where exposure to vapours, aerosols or mists is possible.                          |
| <b>Acute Oral Toxicity</b>               | : | Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat                                                                                                                  |
| <b>Acute Dermal Toxicity</b>             | : | Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit                                                                                                               |
| <b>Acute Inhalation Toxicity</b>         | : | Not considered to be an inhalation hazard under normal conditions of use. Avoid vapours from heated materials to prevent exposure to potentially toxic/irritating fumes. |
| <b>Skin Corrosion/Irritation</b>         | : | Expected to be slightly irritating. Contact with hot material can cause thermal burns which may result in permanent skin damage.                                         |
| <b>Serious Eye Damage/Irritation</b>     | : | Expected to be slightly irritating. Hot product may cause severe eye burns and/or blindness.                                                                             |
| <b>Respiratory Irritation</b>            | : | Inhalation of vapours or mists may cause irritation to the respiratory system.                                                                                           |
| <b>Respiratory or Skin Sensitisation</b> | : | Not expected to be a skin sensitiser.                                                                                                                                    |
| <b>Aspiration Hazard</b>                 | : | Not considered an aspiration hazard.                                                                                                                                     |
| <b>Repeated Dose Toxicity</b>            | : | Not expected to be a hazard.                                                                                                                                             |
| <b>Germ Cell Mutagenicity</b>            | : | Not considered a mutagenic hazard.                                                                                                                                       |
| <b>Carcinogenicity</b>                   | : | Bitumens are not classified as dangerous under GHS                                                                                                                       |

## SafetyData Sheet

criteria.

Bitumens contain low concentrations of Polycyclic Aromatic

Compounds (PACs). In undiluted bitumens these PACs are not considered to be bio -available. However, if bitumens are mixed with diluents to obtain a low viscosity at ambient temperatures, it is believed that such materials may become bio -available.

Despite the known presence of PACs there is no evidence that exposure to undiluted bitumens or their fumes is harmful.

**Reproductive and Developmental Toxicity** : Data not available

---

## 12. ECOLOGICAL INFORMATION

**Basis for Assessment** : Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic organisms.  
Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).

**Mobility** : Adsorbs to soil and has low mobility. In water will either float or sink, showing little tendency to disperse, the product will adsorb to the sediment.

**Persistence/ degradability** : Expected to be not inherently biodegradable.

**Bioaccumulative Potential** : Has the potential to bioaccumulate. In practice, the very low water solubilities and high molecular weights of these substances are such that their bioavailability to aquatic organisms is limited and therefore bioaccumulation is unlikely.

**Other Adverse Effects** : Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.



## SafetyData Sheet

---

### 13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in watercourses.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

---

### 14. TRANSPORT INFORMATION

**NZS 5433:2007**

- UN number : 3257
- Proper shipping name : ELEVATED TEMPERATURE LIQUID, N.O.S. (Bitumen)
- Class : 9
- Packaging group : III
- Hazchem Code : 2Y

**IMDG**

- Identification number : UN 3257
- Proper shipping name : ELEVATED TEMPERATURE LIQUID, N.O.S.
- Technical name : (Bitumen)
- Class / Division : 9
- Packaging group : III
- Environmental Hazard : No
- Additional Information : IATA - Forbidden for transport on passenger and cargo aircraft in molten state.

Not dangerous for conveyance under UN, IMO, ADR/RID, IATA codes if transported at ambient temperature.

## SafetyData Sheet

---

### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

---

### 16. OTHER INFORMATION

|                              |   |                                                                                                                                                                                                                                                               |
|------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SDS Version Number</b>    | : | 1.0                                                                                                                                                                                                                                                           |
| <b>SDS Effective Date</b>    | : | 01 December 2015                                                                                                                                                                                                                                              |
| <b>SDS Regulation</b>        | : | The content and format of this SDS is in accordance with<br>HSNO Approved Code of Practice (No. HSNO CoP 8 -1<br>09-06): Preparation of Safety Data Sheets.                                                                                                   |
| <b>Uses and Restrictions</b> | : | This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.                                                                                                                    |
| <b>SDS Distribution</b>      | : | The information in this document should be made available to all who may handle the product.                                                                                                                                                                  |
| <b>Disclaimer</b>            | : | 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. |