MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **Megaflo®**

**COMPOSITION:**
- Unpigmented High Density Polyethylene 95%
- Low Density Polyethylene 3%
- Carbon Black Colorant 2%

*Not classified as hazardous according to WorkSafe Australia.*

**UN NO:** None allocated  
**D.G. CLASS:** None allocated  
**CAS NO:** 9002-88-4

**PRODUCT IDENTIFICATION:**

**DEFINITION:**
HDPE (High Density Polyethylene) is a variation of the PE polymer, which is produced by processing at low pressure (1-3 Mpa) and temperature (50-120°C), using specific catalysts to control the molecular weight distribution. This process produces a polymer chain with few, short chain branches, which allows chains to pack tightly together, forming a high density product.

**OTHER NAMES:** HIGH DENSITY POLYETHYLENE (HDPE)

**TRADE NAME:** MEGAFLO®

**INGREDIENTS:**

<table>
<thead>
<tr>
<th>CHEMICAL ENTITY</th>
<th>CAS NO</th>
<th>PROPORTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYETHYLENE</td>
<td>9001-88-4</td>
<td>&gt; 98%</td>
</tr>
<tr>
<td>PROPRIETARY ADDITIVES</td>
<td>&lt; 2%</td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICAL DESCRIPTION/PROPERTIES:**

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Black Drainage Pipe</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>None allocated</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>107 - 130°C</td>
</tr>
<tr>
<td>VAPOUR PRESSURE</td>
<td>None allocated</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>None allocated</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>None allocated</td>
</tr>
<tr>
<td>FLAMMABILITY LIMITS</td>
<td>None allocated</td>
</tr>
<tr>
<td>DENSITY (Range)</td>
<td>0.960-0.970g/cm³</td>
</tr>
<tr>
<td>WATER SOLUBILITY</td>
<td>Negligible</td>
</tr>
</tbody>
</table>

**USE:** Drainage Applications.
HEALTH HAZARD INFORMATION

ACUTE EFFECTS:

SWALLOWED: No known effect/minimal toxicity. May cause choking if swallowed.
EYE: Rough edges may scratch eye surface/cause mechanical irritation to eyes.
SKIN: Skin contact may result in mechanical injury or abrasion. This is a low risk hazard. Thermal burns may result from exposure to hot material.
INHALED: Inhalation of fines may cause irritation of nose and throat.

CHRONIC EFFECTS: None known.

FIRST AID:

SWALLOWED: Not expected to be a problem. If uncomfortable seek medical assistance.
EYE: Flush with water in order to remove particles.
SKIN: Wash contact area with soap and water. Molten material will adhere to skin and cause burns. Cool material as quickly as possible with water and see a physician for prompt removal of the adhering material and treatment of the burn. Do not remove material or clothing from skin. Removal may result in further damage to skin.
INHALED: Remove victim to fresh air.

FIRST AID FACILITIES: None allocated.

ADVICE TO DOCTOR: Advise as per above information.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: Full cycle recommends a limit of 10 mg/m³ for nuisance dusts.
ENGINEERING CONTROLS: Good general ventilation is required under ordinary conditions of use.
PERSONAL PROTECTION: Thermal resistant gloves and safety glasses should be worn when handling hot materials. Under dusty conditions (concentrations greater than 10mg/m³) approved dust respirators should be worn to prevent over-exposure by inhalation.
FLAMMABILITY: Polymer may burn in presence of extreme heat and oxygen. Avoid extreme Heat.
ENVIRONMENT: Pellets of resin considered environmentally inert.
SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:
The products listed in the MSDS are not classified as dangerous goods in the Australian Dangerous Goods Code.

PACKAGING AND LABELLING:
No special requirements

SPILLS AND DISPOSAL:
1. Shovel or sweep up spilled material and dispose or recycle.
2. Disposal of recovered material should conform to local regulations.

FIRE/EXPLOSION HAZARD:

EXTINGUISHING MEDIA:
Carbon Dioxide, Foam, Dry Chemical, Water Fog or Fine Water Spray;

SPECIAL FIRE FIGHTING PROTOCOLS:
Firefighters must use self-contained breathing apparatus;

REACTIVITY DATA:
- Stability (Thermal, Light, etc): Stable
- Conditions to avoid: Extreme heat
- Incompatibility (Materials to avoid): Strong oxidising agents
- Hazardous Decomposition Products: Carbon Monoxide, Aldehydes, Acetic Acid
- Hazardous Polymerisation: Will not occur

OTHER INFORMATION

MANUFACTURERS ADVISE:
Conveying lines and equipment in material handling systems should be grounded to eliminate or reduce the build-up of static electricity. Avoid sources of ignition in areas where fines may occur.

The information provided in this Material Safety Data Sheet, is to the best of our knowledge, correct and complete. Final determination of the suitability of any information or material for the use contemplated and the manner of use is the sole responsibility of the user and the user must assume all risk and liability in connection herewith. The information provided herein is subject to change without notice.