**Material Safety Data Sheet (MSDS)**
**Date Issued:** 10 January 2018
**Product Code:** MDPE Pipe
**Pages:** 1–4

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE

**1.1 Product Name:**
Medium Density Polyethylene (MDPE) Pipe – supplied by **E.Tupling**
**1.2 Intended or Recommended Uses:**
Primarily designed for use in geothermal pipework systems.
**1.3 Supplier Contact Information:**
**E.Tupling**
Calver Rd, Warrington WA2 8UD
**Telephone:** 0161 776 0077
**Email: sales@etupling.co.uk**
This document is based on up-to-date knowledge and practical experience. It provides general guidance for safe use and handling of the mentioned product. The information is intended to support workplace risk assessments and help ensure compliance with applicable regulations such as COSHH (2002 & 2004), CLP Regulations, and associated codes of practice.

## 2. HAZARDS IDENTIFICATION

**2.1 Classification:**
The substance is **not classified as hazardous** under standard use conditions.
**2.2 Labelling:**
No applicable labels required under current classification standards.
**2.3 Other Hazards:**
Generally safe. However, **dust generated during cutting** may cause irritation to the **eyes or respiratory tract**.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.1 Substance Description:**
The product is a **polyethylene-based polymer** with no hazardous components under normal usage.

| Chemical Name | EC No. | CAS No. | Weight % | Classification (Reg. EC 1272/2008) | REACH Reg. No. |
|---|---|---|---|---|---|
| Ethylene Hexene-1 Copolymer (MDPE) | None assigned | 25213-02-9 | >99% | Not classified | Not assigned |

## 4. FIRST AID MEASURES

**General Advice:**
Under normal use, first aid is not required.

- **Inhalation:** If fumes from heat decomposition are inhaled, move the individual to fresh air and seek medical help.
- **Skin Contact:** Not typically an issue, but wash with soap and water if irritation occurs from dust.
- **Eye Contact:** Rinse thoroughly with clean water for up to 15 minutes if dust gets into eyes. Seek medical assistance if symptoms persist.
- **Ingestion:** Rinse mouth with water if dust is swallowed during cutting. Medical advice may be necessary.

**4.2 Most Likely Symptoms and Effects:**
Skin and eye irritation may occur if exposed to cutting dust.
**4.3 Immediate Medical Attention:**
Not normally required.

## 5. FIRE-FIGHTING MEASURES

**5.1 Suitable Extinguishing Methods:**
Use **water spray**, **foam**, or **$CO_2$**.
**5.2 Special Hazards in Fires:**
Large fires can produce **toxic fumes** including **carbon monoxide**. Self-contained breathing apparatus is recommended.
**5.3 Firefighting Guidance:**
If fire grows uncontrollable, evacuate the area. Be aware of toxic combustion gases.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal Protection:**
Not necessary under normal conditions.
**6.2 Environmental Precautions:**
No specific environmental risks under regular usage.
**6.3 Cleaning Procedures:**
Collect the material in clean containers. Recycle if possible.
**6.4 References:**
See Sections **8** and **13** for personal protection and disposal guidance.

## 7. HANDLING AND STORAGE

**7.1 Safe Handling Instructions:**
Follow internal work procedures. Use gloves if there's a risk of cuts, especially from damaged or broken parts.
**7.2 Storage Conditions:**

Store according to instructions. Avoid contact with **oxidising agents**.

**7.3 Specific Use Information:**

None additional.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace Exposure Limits (UK):**

| Substance | CAS No. | LTEL (8hr TWA mg/m³) |
|---|---|---|
| Ethylene Hexene-1 Copolymer (MDPE) | 25213-02-9 | 10 (Inhalable), 4 (Respirable) |

**8.2 Control Measures:**

- **Engineering Controls:** Not required under normal handling.
- **Personal Protective Equipment:**
  - **Eye Protection:** Use safety goggles when cutting.
  - **Respiratory Protection:** Wear a dust mask if cutting generates dust.
  - **Hand Protection:** Use abrasion-resistant gloves to prevent cuts.
  - **Hygiene:** Wash hands before breaks or meals and after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid plastic
- **Colour:** As specified
- **Odour:** None
- **Melting Point:** 110 – 140°C
- **Ignition Temperature:** >320°C
- **Explosion Risk:** None
- **Density:** 0.9 – 1.0 g/cm³
- **Water Solubility:** Insoluble

## 10. STABILITY AND REACTIVITY

- **Reactivity:** No dangerous reactions expected under recommended use.
- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** None known.
- **Conditions to Avoid:** Avoid high heat and open flames.
- **Incompatible Substances:** Not applicable.
- **Decomposition By-products:** Can emit **carbon monoxide** and **carbon dioxide** when burned.

## 11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Not relevant under standard conditions.
- **Skin Contact:** Generally non-irritant.
- **Eye Contact:** Dust may cause mild irritation.
- **Sensitisation:** No known allergenic effects.

## 12. ECOLOGICAL INFORMATION

- **Environmental Risk:** Negligible. The material is water-insoluble and immobile in soil.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Handling:**

Recycle where feasible. Otherwise, dispose of in accordance with local and national waste regulations.

## 14. TRANSPORT INFORMATION

This product is **not classified as hazardous** for transportation.

## 15. REGULATORY INFORMATION

Not subject to hazard labelling or regulatory restrictions under current EU legislation.

## 16. OTHER INFORMATION

- **Training Recommendations:** Ensure personnel receive training appropriate to the use and handling of the product.
- **Usage Conditions:** Use only as directed by the supplier.

- **Responsibility:** It is the user’s obligation to ensure compliance with all relevant local and national safety laws.