

# SAFETY DATA SHEET

## POLYETHYLENE YARNS, FIBRES & TAPES

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### CHEMICAL NATURE

Polyethylene, colour concentrate on the basis of polyethylene and additive. Stabilising agent, spin finish when applicable.

### PHYSICAL AND CHEMICAL PROPERTIES

- Form: fibre
- Colour: white
- Odour: odourless
- Melting point/range: 120° - 135°
- Ignition temperature: >360°
- Density: 0.95 – 0.96 gr/cm<sup>3</sup>
- Solubility in water: insoluble
- Thermal decomposition: >390° ignitable gases/vapours
- Hazardous decomposition products: CO, CO<sub>2</sub>, monomers, ignitable gases/vapours

### POTENTIAL HAZARDS

- Toxicity: polyethylene is chemically unreactive and is generally regarded as being biologically inert. According to the information available to us, the product is not harmful to health providing it is correctly handled and processed according to the given recommendations.
- Inhalation
  - Fume evolution: there is no release of any noxious fumes from polyethylene at ambient temperature.
  - Dust generated in processing polyethylene yarns and tapes presents no special hazard but atmospheric dust levels should be kept below the TLV of 10gm/m<sup>3</sup> for nuisance dusts.

### INGESTION

Although polyethylene is inert and can be regarded as harmless, certain additives could be harmful and ingestion is not recommended.

### **PHYSICAL CONTACT**

Polyethylene yarns and tapes are not considered to be a skin irritant, but where lubrication has been applied as a processing aid, this may cause irritation, particularly to the eyes. Eyes affected by lubricant should be washed with cold water for fifteen minutes with eyelids held open.

Burns caused by molten material require hospital treatment.

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### **FLAMMABILITY**

Polyethylene is flammable but difficult to ignite. Store in a safe area. Water, foam CO<sub>2</sub> and dry extinguishing media are suitable. The following can be given off in a fire: CO, CO<sub>2</sub>.

The product contains combustible polymers therefore relevant fire protection measures apply.

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### **HANDLING PROCEDURES**

Practice normal industrial hygiene. Sweep up to prevent slipping. Gaseous products of degradation can be given off if the product is greatly overheated.

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### **WASTE DISPOSAL**

To be carried out in accordance with Local Authority Regulations. UK Environmental Protection (Duty Of Care) regulations (EP) and amendments should be noted (United Kingdom).

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### **OTHER INFORMATION**

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our products must take responsibility for observing existing laws and regulations.

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