

# Kingspan **KoolDuct**<sup>®</sup>

## MATERIAL SAFETY DATA SHEET

### Product Information

#### Identification

Kingspan **KoolDuct**<sup>®</sup>

#### Use

Insulation

#### Description & Appearance

CFC/HCFC-free rigid cellular phenolic insulation core, pink / burnt orange in coloration, and faced on both sides with reinforced silver or black-coated aluminum foil.

#### Manufacturer

Kingspan Insulation Ltd,  
Pembroke, Leominster, Herefordshire HR6 9LA, UK  
Tel: +44 (0) 870 850 8555 Fax: +44 (0) 870 850 8666  
email: info.na@insulation.kingspan.com

### Hazards Identification

Not classified as a hazardous material when handling under normal use.

### Information on Ingredients

Chemical Name	Cas No.	Weight %	LC50 (Inh Rat)	LD50 (Inh Rat)
Cyclopentane <sup>1</sup>	287-92-3 <sup>2</sup>	2.5-5	106 gm/m <sup>3</sup>	12800 mg/kg
Methylbutane <sup>1</sup>	78-78-4 <sup>2</sup>	2.5-5	280000 mg/m <sup>3</sup> /4H	-

<sup>1</sup> Blowing agent in rigid phenolic insulation core.

<sup>2</sup> Not listed by ACGIH, IARC, NTP or CA Prop 65.

### Reactivity Data

Stability	Stable
Conditions of Instability	Not established
Conditions of Reactivity	Not established
Incompatibility (materials to avoid)	None

### Physical Data

Boiling Point	Not applicable
Specific Gravity (H <sub>2</sub> O = 1)	0.035 to 0.08
Percent Solid by Weight	Not applicable
Vapor Pressure	Not applicable
Evaporation Rate (butyl acetate = 1)	Not applicable
Freezing Point	Not applicable
Vapor Density (Air = 1)	Not applicable
Solubility in Water	Insoluble
pH	Not established
Odor	Minimal odor
Odor Threshold	Not established
Coefficient of Water/	
Oil Distribution	Not established
Physical State	Solid

### Fire & Explosion Data

Flash Point	Not applicable
Method Used	Not applicable
Flammable Limits	Not applicable
Extinguishing Media	Carbon dioxide / dry chemical
Conditions of Flammability	Not applicable
Auto-Ignition Temperature	Not established
Hazardous Combustion Products	Carbon monoxide, carbon dioxide
Explosion Data	Not applicable

#### Special Fire Fighting Procedures

Wear self contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

#### Unusual Fire & Explosion Hazards

Product is difficult to ignite. Does not support combustion.

## Toxicological Properties

Exposure Limit	Not established for mixture
Effects of Acute Exposure	
Eye Contact	Dust may cause irritation
Ingestion	Low concern for acute toxicity but may cause irritation to digestive system
Inhalation	Irritation to respiratory tract may occur if the product dust is inhaled
Skin Contact	May cause irritation in sensitive individuals with prolonged or repeated contact
Effects of Chronic Exposure	No chronic effects expected
Irritancy of Product	Eye, skin and respiratory irritant
Sensitization to Product	Not available
Carcinogenicity	No
Reproductive Toxicity	Not available
Teratogenicity	Not available
Synergistic Products	Not available
Mutagenicity	Not available

## Preventive Measure

### Personal Protective Equipment / Engineering Controls

Rubber or water-proof gloves and approved safety goggles should be used. Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

### Leak and Spill Procedure

Collect solid material and dispose.

### Waste Disposal Method

Dispose of in accordance with federal, state and local regulations. Assure conformity with applicable disposal regulations.

### Handling Procedures

Avoid contact with eyes and skin. Avoid generation of dust. Avoid inhaling dust. Handle with care. Follow all MSDS / label guidelines.

*Kingspan KoolDuct® rigid phenolic insulation is sold for commercial and / or industrial use only. Its use should be based on the design of the complete insulation system specified by professional engineers and consultants. All insulation should be applied in accordance with the National Commercial and Industrial Insulation Standards (1999 Fifth Edition), as published by MICA and endorsed by NIA.*

*Before applying any type of insulation, all equipment surfaces must be dry, free of dirt, dust, grease, frost, moisture and any other imperfections. The potential user must perform all pertinent tests in order to determine the suitability of Kingspan KoolDuct® rigid phenolic insulation for the specific intended application. Final determination of product fitness for any and all potential and particular*

## Storage Requirements

(i) Store in original packing in a location free from any ignition hazard such as open flames, cutting and welding torches, high surface temperature electric heaters and other forms of direct radiant heat.

(ii) Keep protected from the elements and do not stack more than 8 ft in height. Ensure stability of stack and provide adequate aisle space for access between stacks.

## Special Shipping Information

None.

## First Aid Measures

### Eyes

In case of contact, immediately flush eyes with water for at least 15 minutes. Remove contact lenses. If irritation persists, call a physician.

### Skin

Immediately wash skin with mild soap or a proprietary cleanser and water for 15 minutes. If irritation persists, call a physician.

### Ingestion

If swallowed, do not induce vomiting. Rinse mouth with copious amounts of water. Call a physician immediately.

### Inhalation

In case of irritation, move individual to fresh air. In case of difficulty breathing, administer oxygen. If breathing stops, give artificial respiration. Keep individual warm and quiet. Call a physician immediately.

## Preparation Information

*Kingspan KoolDuct®*

Date of Preparation January 1, 2004

Revised February 2009

Telephone number +44 (0) 870 850 8555

*uses is the responsibility of the buyer. All orders are accepted subject to and sales made in accordance with the terms and conditions in the sellers invoice. Recommendations made by this company and its representatives are based upon test data, experiments and experience believed to be reliable. No guarantee of accuracy is made, however. Surface burning characteristics derived from ASTM E 84 are not intended to reflect hazards presented by this product under actual fire conditions. It is a condition of sale that the manufacturer in no event assumes liability beyond the purchase price of the products involved, but the manufacturer will refund the purchase price or replace materials found to be defective provided that the defects are reported in a timely fashion and in any event no later than six (6) months after shipment. No representative of the manufacturer and / or the seller has authority to alter or extend these conditions.*



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