

Material Safety Data Sheet



Material Safety Data Sheet / C.O.S.H.H
Control of Substances Hazardous to Health

Material Safety Data Sheet

Insulated Roof & Wall Panels

Product: Insulated Roof & Wall Panels

These products are exempt from the requirements of Article 57 and 59(1) of REACH Regulation (EC) No 1907/2006. The information below follows the SDS format as described in Annex 2 of the Regulation.

1. Identification of Products and Company

Identification

- KS1000/2000 RW
- KS1000 SF
- KS500/1000 ZIP
- KS 1000 LP
- KS 1000CR
- KS 1000DR
- KS600-1000 AWP

Company

Kingspan Insulated Panels
Greenfield Business Park No. 2
Greenfield
Flintshire
CH8 7GJ
Tel: 01352 716100
Fax: 01352 710161

Kingspan envirocare Technical Services
Tel: 0800 587 0090 (freephone) or 01352 716101
Email: envirocare@kingspanpanels.com

2. Hazards identification

Not applicable

3. Composition

Core: Rigid Thermoset Polyurethanes Insulation
Facings: Painted Steel

4. First-aid measures

- Inhalation: Dust is non-hazardous. Remove the person to fresh air.
- Skin: Non-sensitising

- Eyes: Dust particles should be removed by flushing with clean water.
- Ingestion: No information available.
- Other: Seek medical attention if discomfort persists.

5. Fire-fighting measures

It is prudent to take precautions against ignition, fire spread and smoke hazard:

- Suitable media: Waterspray (fog), Foam, CO₂ or Dry Chemical
- Un-suitable media: Not applicable.
(Aluminium particulate fire Use a class D dry powder extinguisher. Do NOT use water or halogenated extinguishing media.)
Fire fighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. Dust is classified as weakly explosive (St. Class 1)

6. Accidental release measures

Not applicable.

7. Handling and storage

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. Keep product protected from the elements. Ensure stability of stack and provide adequate aisle space for access between stacks.

8. Exposure controls/personal protection

- Inhalation: Dust is non-hazardous.
Dust from aluminium facings Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas. May give off hydrogen gas, when exposed to damp conditions. As with all cutting procedures it is recommended that a disposable dust mask be worn (P3).

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(Where dust is generated through mechanical cutting in confined spaces, it is recommended that extraction be used).

- Hands: It is recommended that gloves be worn when handling the product.
- Eyes: Eye protection is recommended during mechanical cutting. (When installing a product with reflective facings in very bright or sunny weather it is advisable to wear UV protective sunglasses or goggles).
- Skin: Non-sensitising (When installing a product with reflective facings in bright sunlight, it is advisable to consider skin protection from UV).
- Other: The smooth facing used on roof products can be slippery underfoot when wet or other adverse weather conditions.

9. Physical and chemical properties

- Appearance: Yellow foam with alternative facings of painted steel / Aluminium.
- Odour: Negligible
- pH: Neutral under normal conditions
- Melting point: Not applicable
- Flash point: Not applicable
- Insulation Density: Typically 30-60 kg/m³
- Solubility in water: Insoluble
- Other data: None

10. Stability and reactivity

Stable and un-reactive during normal use (see section 7).

In the form of particles, aluminium may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminium particles on contact with copper, lead or iron oxides can react vigorously with release of heat if there is a source of ignition or intense heat. Hazardous Decomposition: Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas.

11. Toxicological information

No information available at this time.

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12. Ecological information

The product is inert and stable in water and soil.

13. Disposal considerations

Waste insulation is non-hazardous.

Product dust created in the installation process is regarded as nuisance dust only, because of its inert nature.

Observe usual safety precautions with polythene bags, wrapping and packaging. Waste product should be disposed of in accordance with local laws and regulations. Clean, undamaged product may be re-used.

14. Transport information

Read this section in conjunction with section 7.

Ensure security of load securing straps with edge protectors are used. It is recommended that mechanical lifting equipment is used when moving bulk quantities.

15. Regulatory information

Not applicable.

16. Other information

The information contained here is offered in good faith and is based on our current knowledge.

We thereby withhold the right to update and amend this document as necessary. The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly. The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.

Users should visit www.kingspanpanels.com or contact the Kingspan envirocare Technical Services Department to ensure information is current.

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Insulated Roof & Wall Panels

Product: Insulated Membrane Lined Gutter

These products are exempt from the requirements of Article 57 and 59(1) of REACH Regulation (EC) No 1907/2006. The information below follows the SDS format as described in Annex 2 of the Regulation.

17. Identification of Products and Company

Identification

- Kingspan Insulated Membrane Lined Gutter.
- Kingspan Topdek Insulated roof panel.

Company

Kingspan Insulated Panels
Greenfield Business No. 2
Holywell
Flintshire
CH8 7GJ
Tel: 01352 716100
Fax: 01352 710161

Kingspan envirocare Technical Services
Tel: 0800 587 0090 (free phone) or 01352 716101
Email: envirocare@kingspanpanels.com

18. Hazards identification

Not applicable

19. Composition

- Core: Rigid Thermoset Polyurethanes Insulation
- Facings: Painted Steel internal Single ply PVC membrane to external

20. First-aid measures

- Inhalation: Dust is non-hazardous. Remove the person to fresh air.
- Skin: Non-sensitising
- Eyes: Dust particles should be removed by flushing with clean water.
- Ingestion: No information available.
- Other: Seek medical attention if discomfort persists.

21. Fire-fighting measures

It is prudent to take precautions against ignition, fire spread and smoke hazard:

- Suitable media: Waterspray (fog), Foam, CO₂ or Dry Chemical
- Un-suitable media: Not applicable.
(Aluminium particulate fire Use a class D dry powder extinguisher. Do NOT use water or halogenated extinguishing media.)
Fire fighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. Dust is classified as weakly explosive (St. Class 1)

The membrane is fire retarded and will not ignite under normal circumstances, however, in a fire, it will burn releasing harmful products. In the event of a fire, wear protective clothing, In confined areas wear self-contained breathing apparatus.

22. Accidental release measures

Not applicable.

23. Handling and storage

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.

24. Exposure controls/personal protection

- Inhalation: Dust is non-hazardous.
Dust from aluminium facings Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas. May give off hydrogen gas, when exposed to damp conditions. As with all cutting procedures it is recommended that a disposable dust mask be worn (P3). (Where dust is generated through mechanical cutting in confined spaces, it is recommended that extraction be used).
- Hands: It is recommended that gloves be worn when handling the product.
- Eyes: Eye protection recommended during mechanical cutting.

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(When installing a product with reflective facings in very bright or sunny weather it is advisable to wear UV protective sunglasses or goggles).

- Skin: Non-sensitising

(When installing a product with reflective facings in bright sunlight, it is advisable to consider skin protection from UV).

- Other: The smooth facing used on roof products can be slippery underfoot when wet or other adverse weather conditions.

25. Physical and chemical properties

- Appearance: Yellow foam with steel internal liner sheet and single ply PVC membrane external.
- Odour: Negligible
- pH: Neutral under normal conditions
- Melting point: Not applicable
- Flash point: Not applicable
- Insulation Density: Typically 30-60 kg/m³
- Solubility in water: Insoluble
- Other data: None

26. Stability and reactivity

Stable and un-reactive during normal use (see section 7). In the form of particles, aluminium may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminium particles on contact with copper, lead or iron oxides can react vigorously with release of heat if there is a source of ignition or intense heat.

Hazardous Decomposition: Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas.

27. Toxicological information

No information available at this time.

28. Ecological information

The product is inert and stable in water and soil.

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29. Disposal considerations

Waste insulation is non-hazardous.

Product dust created in the installation process is regarded as nuisance dust only, because of its inert nature. Observe usual safety precautions with polythene bags, wrapping and packaging.

Waste product should be disposed of in accordance with local laws and regulations. Clean, undamaged product may be re-used.

30. Transport information

Read this section in conjunction with section 7.

Ensure security of load securing straps with edge protectors should be used.

It is recommended that mechanical lifting equipment is used when moving bulk quantities.

31. Regulatory information

Not applicable.

32. Other information

The information contained here is offered in good faith and is based on our current knowledge. We thereby withhold the right to update and amend this document as necessary. The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly. The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.

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Material Safety Data Sheet

Product: KS1000 Polycarbonate Rooflight

These products are exempt from the requirements of Article 57 and 59(1) of REACH Regulation (EC) No1907/2006. The information below follows the SDS format as described in Annex 2 of the Regulation.

33. Identification of Products and Company

Identification

- KS1000 Polycarbonate Rooflight

Company

Kingspan Insulated Panels
Greenfield Business No. 2
Holywell
Flintshire
CH8 7GJ
Tel: 01352 716100
Fax: 01352 710161

Kingspan envirocare Technical Services
Tel: 0800 587 0090 (freephone) or 01352 716101
Email: envirocare@kingspanpanels.com

34. Hazards identification

- Eyes: Small particles may cause irritation / injury due to mechanical action
- Skin: Product not likely to cause skin irritation
- Ingestion: Not acutely toxic
- Inhalation: Product inhalation unlikely due to physical form
- Melt Processing health effects: Molten plastic can cause severe burns. Processing fumes may cause irritation to the eyes, nausea and headache.
- Medical Restrictions: When heated up to processing temperature virtually all thermoplastics emit processing fumes. The exact composition and concentration of these processing fumes depend on the sheet formulation, including additives, the residence time and in the processing equipment, equipment variables such as venting parameters and the

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processing temperature. When the product is processed according to the GE plastics recommended guidelines and taking normal precautions detailed below, there are no known adverse effects to human health. Certain sensitive individuals and those with respiratory impairments, however, may experience some temporary irritation by exposure to specific components in the processing fumes.

35. Composition

- Core: Rigid Thermoset Polyurethanes Insulation
- Facings: Painted Steel internal Single ply PVC membrane to external.

36. First-aid measures

- Inhalation: Not likely to be inhaled due to physical form.
- Skin: Non-sensitising.
- Eyes: Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline solution for 20-30 minutes. If irritation persists, seek medical attention.
- Ingestion: Since this material is not expected to be an ingestion problem, no first aid procedures are required.
- Thermal Processing: For molten plastic contact, cool rapidly with water and seek immediate medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal
For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficulty in breathing or any other symptom's develop, seek medical attention at once.

37. Fire-fighting measures

- Fire fighting: Approved pressure demand breathing apparatus and protective clothing should be used for all fires.
- Extinguish media: Water spray and foam and dry chemical recommended, water is the best extinguish medium.

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Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

- Hazardous combustion: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide and traces of hydrocarbon fragments.
- Conditions of flammability: Requires a continuous flame source to ignite and sustain burning.

38. Accidental release measures

Sweep or gather up material and place in proper container for disposal or recovery.

39. Handling and storage

Follow good standard industrial hygiene practices. Apply adequate ventilation directly to the outside air.

Inert material under normal storage conditions. No special precautions required.

Do not stock unsupported sheet or pallets too high.

40. Exposure controls/personal protection

A continuous supply of fresh air to the workplace, together with removal of processing fumes through exhaust system is recommended.

Wear safety goggles with side shields when cutting the sheet.

Good industrial hygiene practice requires adequate general ventilation of the workplace. When dust and powder from secondary operations, such as grinding, sanding or sawing are not adequately controlled, use respirator approved for protection from dust.

Wear protective gloves when handling the sheet, as the edges may be sharp

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41. Physical and chemical properties.

- Physical state: Solid
- Odour: Multi-wall sheet with slight odour nr no odour
- Boiling point: Not applicable
- Melting point: See comment below
- Vapour pressure: Negligible
- Vapour density: Not applicable
- Specific gravity: >1
- Water solubility: Insoluble
- % Volatiles: Negligible
- pH: Not applicable
- Odour threshold: Not established
- Evaporation: Negligible
- Coefficient water/oil: Not established
- Flash Point: Not applicable
- Lower flame limit: Not applicable
- Upper flame limit: Not applicable
- Auto-ignition: 630 degrees Celsius, estimated
Comment: This product does not exhibit a sharp melting point, but softens gradually over wide temperature range.

42. Stability and reactivity

- Stability: Stable under recommended condition of storage and handling
- Reactivity: Not reactive under recommended conditions of handling, storage, processing and use
- Hazardous: Processing fumes evolved at recommended processing conditions may include trace phenol, alkyl phenols and diarylcarbonates

43. Toxicological information

Acute oral: Oral LD50 (rat) >5g/kg, estimated.

44. Ecological information

Not expected to present any significant ecological problems

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45. Disposal considerations

- Waste Disposal: This product is not regarded as hazardous waste
Dispose in accordance with local regulations
- Recycling: This product may be recycled either back into sheet, or into other suitable applications

46. Transport information

This product is not subject to transport regulations.

47. Regulatory information

This product is not considered dangerous under EC directives 67/548/EEC and 88/379/EEC, as amended.

This MSDS has been prepared in accordance with EU directive 91/155/EEC, as amended by 93/112/EC

48. Other information.

This publication provides information and guidelines for safe handling and cutting and is based on currently available experience and knowledge. It is not designed as a comprehensive product performance data sheet, nor as a guide to application possibilities or our materials.

Users should follow all applicable local regulations governing health and safety at work, and are requested to pass this publication to all relevant employees and customers.

Users should visit www.kingspanpanels.com or contact the Kingspan envirocare Technical Services Department to ensure information is current.

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Controlled Environments

Product: KS1100 CS

These products are exempt from the requirements of Article 57 and 59(1) of REACH Regulation (EC) No 1907/2006. The information below follows the SDS format as described in Annex 2 of the Regulation.

49. Identification of Products and Company

Identification

- KS1100 CS

Company

Kingspan Insulated Panels
Greenfield Business Park No. 2
Greenfield
Flintshire
CH8 7GJ
Tel: 01352 716100
Fax: 01352 710161

Kingspan enviocare Technical Services
Tel: 0800 587 0090 (freephone) or 01352 716100
Fax: 01352 716111
Email: enviocare@kingspanpanels.com

50. Hazards identification

Not applicable

51. Composition

Core: Rigid Thermoset Polyurethanes Insulation
Facings: Painted Steel

52. First-aid measures

- Inhalation: Dust is non-hazardous. Remove the person to fresh air.
- Skin: Non-sensitising
- Eyes: Dust particles should be removed by flushing with clean water.
- Ingestion: No information available.
- Other: Seek medical attention if discomfort persists.

53. Fire-fighting measures

It is prudent to take precautions against ignition, fire spread and smoke hazard:

- Suitable media: Waterspray (fog), Foam, CO2 or Dry Chemical
- Un-suitable media: Not applicable.
(Aluminium particulate fire Use a class D dry powder extinguisher. Do NOT use water or halogenated extinguishing media.)

Fire fighters should use self-contained breathing apparatus and saturate burning foam with water from a spray nozzle. Dust is classified as weakly explosive (St. Class 1)

54. Accidental release measures

Not applicable.

55. Handling and storage

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. Keep product protected from the elements. Ensure stability of stack and provide adequate aisle space for access between stacks.

56. Exposure controls/personal protection

- Inhalation: Dust is non-hazardous.
Dust from aluminium facings Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas. May give off hydrogen gas, when exposed to damp conditions. As with all cutting procedures it is recommended that a disposable dust mask be worn (P3). (Where dust is generated through mechanical cutting in confined spaces, it is recommended that extraction be used).
- Hands: It is recommended that gloves be worn when handling the product.
- Eyes: Eye protection recommended during mechanical cutting. (When installing a product with reflective facings in very bright or sunny

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weather it is advisable to wear UV protective sunglasses or goggles).

- Skin: Non-sensitising (When installing a product with reflective facings in bright sunlight, it is advisable to consider skin protection from UV).
- Other: The smooth facing used on roof products can be slippery underfoot when wet or other adverse weather conditions.

57. Physical and chemical properties

- Appearance: Yellow foam with alternative facings of painted steel / Aluminium.
- Odour: Negligible
- pH: Neutral under normal conditions
- Melting point: Not applicable
- Flash point: Not applicable
- Insulation Density: Typically 30-60 kg/m³
- Solubility in water: Insoluble
- Other data: None

58. Stability and reactivity

Stable and un-reactive during normal use (see section 7).

In the form of particles, aluminium may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminium particles on contact with copper, lead or iron oxides can react vigorously with release of heat if there is a source of ignition or intense heat. Hazardous Decomposition: Aluminium, particularly in the form of particles, reacts with halogenated acids, water and caustic alkalis producing flammable hydrogen gas.

59. Toxicological information

No information available at this time.

60. Ecological information

The product is inert and stable in water and soil.

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61. Disposal considerations

Waste insulation is non-hazardous.

Product dust created in the installation process is regarded as nuisance dust only, because of its inert nature.

Observe usual safety precautions with polythene bags, wrapping and packaging.

Waste product should be disposed of in accordance with local laws and regulations.

Clean, undamaged product may be re-used.

62. Transport information

Read this section in conjunction with section 7.

Ensure security of load securing straps with edge protectors should be used.

It is recommended that mechanical lifting equipment is used when moving bulk quantities.

63. Regulatory information

Not applicable.

64. Other information

The information contained here is offered in good faith and is based on our current knowledge. We thereby withhold the right to update and amend this document as necessary. The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly. The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application.

Users should visit www.kingspanpanels.com or contact the Kingspan envirocare Technical Services Department to ensure information is current

Kingspan Limited

Greenfield Business Park No.2, Greenfield, Holywell, Flintshire, North Wales CH8 7GJ

t: +44 (0) 1352 716100 f: +44 (0) 1352 710161 www.kingspanpanels.com

Registered Office at Greenfield Business Park No.2, Greenfield, Holywell, Flintshire, N. Wales CH8 7GJ. Company Reg. No. 1037468

