



MATERIAL SAFETY DATA SHEET

ZELLTECH™ radiant heat barrier

SECTION 1 : IDENTIFICATION OF THE MATERIAL

PRODUCT NAME : ZELLTECH™ RADIANT HEAT BARRIER
RECOMMENDED USE : used as reflective insulation in roofs, walls and floors of domestic, industrial and commercial buildings.
WEBSITE : www.zelltech-insulation.com
IMPORTANT NOTICE : This material safety data sheet (MSDS) is issued by the supplier. The information in it must not be altered, deleted or added to. The supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The supplier will issue a new MSDS when there is a change in product specifications, guidelines or regulations.

SECTION 2 : HAZARDS IDENTIFICATION

These products are not considered to be hazardous, and are not classified as 'controlled products'. They are comprised principally of Polyethylene and Pure Aluminium foil that are non hazardous.

SECTION 3 : FIRST AID MEASURES

EYE CONTACT : check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
SKIN CONTACT : no skin reaction would be expected from contact with the product. Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

SECTION 3 : PHYSICAL DATA

BOILING POINT : 2327°C (Aluminium foil)
MELTING POINT : 660°C (Aluminium foil)
TEMP. RANGE : - 40°F TO 200°F
WATER VAPOUR PERM: < 0.001 PERMS
APPEARANCE : FLEXIBLE SHEET
ODOUR : NONE
SCRATCH RESISTANCE: BOTH SIDES
REFLECTIVITY : 96%
MIL STANDARD 810 FOG TEST : NO DEFECTS OBSERVED
MIL STANDARD 810 HUMIDITY TEST : NO DEFECTS OBSERVED

SECTION 4 : FIRE AND EXPLOSION DATA

Flammability of the product : Non – Flammable
Auto ignition temperature : Not available
Flash point : Not available
Flammable limits : Not available
Usual Fire hazards : Radiant Barrier foil materials are not highly flammable, but in contact with flame they will melt and burn.

SECTION 5 : FIRE FIGHTING MEASURES

Specific Hazards : Not Flammable – delaminates above 90°C
Extinguishing Media : use extinguishing media (e.g. CO₂, foam or Dry chemical) and equipment as required if fire in surrounding materials.
Fire fighting procedures : if product is present in a fire, some smoke and toxic gasses may be evolved. Wear protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.
Hazardous decomposition products. : when heated above 120°C, the adhesive may break down releasing chlorine and hydrogen chloride.

SECTION 6 : HANDLING & STORAGE

Generally the products require no special precautions when handling, However the products may become slippery when wet, and care should be taken when walking on this.
Storage : Keep in a dry sheltered environment, Keep container tightly closed, Keep in a cool and well ventilated area.
Keep away from incompatibles such as oxidizing agents, acids, alkalis.

SECTION 7 : STABILITY AND REACTIVITY

CHEMICAL STABILITY : STABLE
INCOMPATIBILITY MATERIALS : NONE
REACTIVITY : reactive with oxidizing agents, acid, alkalis.
CONDITION TO AVOID : HEATING TO OVER 120°C
HAZARDOUS DECOMPOSITION : when heated above 120°C, the adhesive may break down releasing chlorine and hydrogen chloride.
HAZARDOUS POLYMERISATION : NONE
POLYMERIZATION : Will not occur
Corrosivity : Not available

SECTION 8 : TOXICOLOGICAL INFORMATION

Toxicological data is not applicable to the solid material.
Health effects (applicable to any fumes due to overheating above 120°C)
Acute effects : when heated above 120°C, the adhesive may break down releasing chlorine and hydrogen chloride.
Swallowed : unlikely under normal use.
Eye : in situations overheating above 120°C fumes will irritate the eyes causing Watering and redness.

Skin : in situations overheating above 120°C fumes may cause mild skin irritation
Inhaled : in situations overheating above 120°C highly irritant smoke or fumes may cause excess mucous secretion, coughing and lung damage.

SECTION 9 : ECOLOGICAL INFORMATION

ECOTOXICITY : no known reports of ecotoxicity
Degradability : product would be expected to be of low bio-degradability
Recyclable : aluminium foil is 100% recyclable and environment friendly
Mobility : low mobility in landfill situations.

SECTION 10 : DISPOSAL CONSIDERATIONS

Collect off-cuts and waste material.
Dispose into landfill site in accordance with relevant authority guidelines.

SECTION 11 : TRANSPORT INFORMATION

Transport requirements : no special transport requirements are necessary.
Incompatibilities : none
Marine pollutant : No
DOT classification : not a DOT controlled material (United States)

SECTION 12 : Other Regulatory Information

Federal and State Regulations:

California prop 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute:

No products were found.

California prop. 65: This product contains the following ingredients for which The State of California has found to cause cancer which would require warning under the statute :

No products were found.

ASTM (American Standard Testing Methods) : ASTM D-882, ASTM D1938, ASTM C 1338-00
ASTM C 1136-92, MIL Standard

SECTION 13 : OTHER INFORMATION

ISSUED : September 10, 2012

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