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Safety Data Sheet – Insulated Cavity Closers with Expanded Polystyrene

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1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Dacatie Insulated PVCu extruded cavity closer profiles for the building industry.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Cavity Closers are used in the construction industry to overcome thermal loss that occurs around unprotected cavities and reveals

1.3. Details of the supplier of the safety data sheet
Quantum Profile Systems Ltd
Salmon Fields
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1.4. Emergency telephone number
Quantum Profile Systems Ltd. Customer Service desk: 0161 627 4222

2: Hazards identification

2.1. Classification of the substance or mixture
PVCu carrier is non-hazardous in finished form.
EPS product itself is not classified as a hazardous substance under the current COSHH regulations
EPS is regarded as biologically inert.

2.2. Label elements
The overall conclusion in accordance with the REACH regulation is that there are no hazardous classifications associated with either of the 2 components forming a cavity closer, in respect to physical, health and environmental considerations.

2.3. Other hazards
Use of high speed cutting tools can generate dust.
EPS: Where substantial dust is likely to be produced in any subsequent re- working or processing of EPS (e.g. band sawing or grinding) suitable dust extraction should be provided to ensure that exposure does not exceed 10mg/m3 8 hours TWA (Occupational Exposure Limit for total inhalable dust).

Registered in England No: 4057656 Registered Office: Salmon Fields, Royton, Oldham, OL2 6JG VAT Number: 764 5072 22

3: Composition/information on ingredients

3.1. Substances

Carrier: Unplasticised polyvinylchloride (uPVC) containing a blend of post industrial / post consumer recycled content and contains no ingredients listed as hazardous for supply.

Infill: Expanded polystyrene (EPS)

3.2. Mixtures

Not applicable

4: First aid measures

4.1. Description of first aid measures

No special First Aid measures are required when using the product as recommended by the manufacturer.

Eyes: If dust particles enter the eye, wash with sterilised water. If symptoms persist seek medical attention.

Skin: If irritation occurs, remove contaminated clothing and wash skin with soap and water.

Inhalation: Dust particles from cutting are unlikely to be of inhalable dimensions unless power tools are used. If problems are experienced, remove to fresh air and drink water.

Ingestion: Drink plenty of water if accidentally ingested.

Fire, Inhalation of smoke or fumes: Remove the subject from exposure into fresh air. Keep subject warm and at rest. If rapid recovery does not occur obtain immediate medical attention

4.2. Most important symptoms and effects, both acute and delayed

None.

4.3. Indication of any immediate medical attention and special treatment needed

None required. If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

5: Firefighting measures

5.1. Suitable extinguishing media

Water, foam, carbon dioxide or dry powder. Do not use water or Foam on fires involving electricity.

5.2. Special hazards arising from the substance or mixture

PVCu Carrier: Decomposition will occur in temperatures exceeding 200°C. Products of combustion – carbon dioxide, carbon monoxide and hydrogen chloride.

EPS: (EPS) dust, like other hydrocarbon based polymers in this form is classified as a Group (A) flammable dust and precautions should be taken as required under Section 31 of the Factories Act 1961.

5.3. Advice for firefighters

Use breathing apparatus and in the case of a major fire wear acid resistant clothing. In the event of a fire which requires the Fire Service to attend ensure they are advised that EPS is involved

6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures
The PVCu carrier is in solid form and poses no hazard. No special requirements. In situations where there are high concentrations of dust, use personal protective equipment as described in Section 8.

6.2. Environmental precautions
Do not allow loose bead to enter drains or water courses clean up spills and store in suitable containers for disposal or re-cycling.

6.3. Methods and material for containment and cleaning up

PVCu Carrier:	Minimise exposure to dust from mechanical cutting process.
EPS:	This product is supplied in moulded block/or cut board form and as such does not pose any specific threat. No specific personal protection required, disposal or re-cycling.

6.4. Reference to other sections
See section 8 for recommended personal protection measures.
See 13 for disposal considerations.

7: Handling and storage

7.1. Precautions for safe handling
No special precaution.

7.2. Conditions for safe storage, including any incompatibilities
Store in original packaging in a dry place. EPS should be stored away from highly inflammable material such as paint or petroleum products.

7.3. Specific end use(s)
When cutting product with power tools, provide adequate localised dust extraction and respiratory and eye protection as specified in section 8.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Whilst there are no exposure limits associated with the product the use of PPE is recommended when cutting and securing the product.

8.2. Exposure controls

Respiratory protection:	In confined spaces it is recommended that disposable face masks complying with BS EN 149 type FFP1 or FFP2 should be used and are suitable for most applications to improve comfort.
Eye protection:	When cutting or processing with power tools, eye protection complying with BS EN 166 should be worn.
Skin protection:	Loose fitting clothing is advised, cover exposed skin when working with unwrapped product.

9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Rigid article
Odour:	Slight Odour
Solubility:	Insoluble in water
Decomposition:	Thermal decomposition is dependent on both time and temperature but will occur with increasing rapidity above 200°C.

9.2. Other information

No further chemical or physical properties to report.

10: Stability and reactivity

10.1. Reactivity

Not reactive

10.2. Chemical stability

Stable in normal use.

10.3. Possibility of hazardous reactions

Not reactive

10.4. Conditions to avoid

PVCu Carrier:	Avoid contact with acids and oxidising agents at temperatures above 60° C. Avoid contact with Acetal Resin.
EPS:	Heat, flames& sparks. Avoid Strong sunlight for prolonged periods.

10.5. Incompatible materials

None specified

10.6. Hazardous decomposition products

If thermal decomposition occurs hydrogen chloride gas will be released.

11: Toxicological information

11.1. Information on toxicological effects

No known toxic effects. No link between EPS dust/granules and lung disease in production or user industries. No adverse irritant reaction to skin in dermal patch tests. No chronic effects usually associated with skin or eye contact. There are no hazardous classifications associated with the EPS used in Dacatie Cavity Closers under REACH Regulations.

12: Ecological information

12.1. Toxicity

None

12.2. Persistence and degradability

PVC compositions are considered to be ecologically benign and do not readily decompose when weathered or exposed to micro-organisms.

12.3. Bioaccumulative potential
None

12.4. Mobility in soil
None

12.5. Results of PBT and vPvB assessment
No assessment required

12.6. Other adverse effects
None

13: Disposal considerations

13.1. Waste treatment methods
If possible recycle, otherwise disposal should be in accordance with local, state, or national legislation. Disposal by burial in an authorised landfill site or by incineration under approved controlled conditions is acceptable. Combustion will evolve toxic gases.
PVCu is highly recyclable, and accepted by licensed trade recyclers throughout the UK.
EPS recover or recycling by using a registered re-cycler. Scrap expanded polystyrene is not classified as "Notifiable Waste" and may be disposed of in suitable landfill sites or by incineration under approved conditions. Advice on the preferred method of disposal should be obtained at all times from local environmental authorities.

14: Transport information

14.1. UN number
EPS: 2211

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
No smoking and controls against exposure to ignition sources as best practice should be enforced whist transporting, loading and unloading operations.

14.4. Packing group
Not applicable

14.5. Environmental hazards
Not applicable

14.6. Special precautions for user
None specified

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
None specified

15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This product does not normally present a danger to human health by inhalation, ingestion or contact with the skin in the form in which it is supplied and used as recommended by the manufacturer.
S36/37 Wear suitable protective clothing and gloves.
EPS: EC Label Name: Expanded Polystyrene

15.2. Chemical safety assessment
No assessment required

16: Other information

This data sheet does not constitute a workplace risk assessment.

This safety Data Sheet has been prepared by Quantum Profile Systems Ltd in good faith on the basis of its best actual knowledge and on information available to date. It does not constitute a specification.

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UK health and safety regulations (including REACH) do not require a Safety Data Sheet (SDS) to be provided for cavity closers. Quantum Profile Systems Ltd. voluntarily make REACH compliant safety data sheets available for their products to ensure that health and safety information is provided in a recognised standard format.