

Product Safety Data Sheet

1. Identification of the substance /mixture and of the company/undertaking	
1.1 Identification of the substance or mixture	PVCU profiles and fittings
1.2 Use of the substance/mixture	Weather resistant PVC profile and roofline rainwater systems.
1.3 Company/Undertaking Identification	Address: Freefoam Plastics Ltd. Central Commercial Park Centre Park Road Cork Ireland Telephone 00353(0)214966311 email info@freefoam.com
2. Composition/information on ingredients	
<p>Some profiles/products are co-extruded and in these instances separate stabilising systems may be used. Calcium organic is the stabilisation of choice for white or near white PVC-u. Alkyltin stabilisation of PVC-ue and coloured PVC-u is used.</p> <p>The main ingredient is PVC resin homopolymer, Cas No. 9002-86-2</p> <p>The risk phrases of hazardous substances used in the PVC polymer preparations for the production of the products can include: R21, R22, R38, R40, R43, R44, R48/25, R50/53, R53, R60, R61, R63 and R68.</p>	
3. Hazards identification	
<p>Appearance: Odourless plastic solid</p> <p>The PVC-u extruded and injection moulded products in fully gelled form do not present a danger to human health by inhalation, ingestion or contact with the skin under conditions of normal use. Their preparations contain a (many) hazardous substance(s) but being non-biodegradable by weathering or micro organisms ecological injuries are not known or expected under conditions of normal use. The products are predominantly used externally.</p>	
4. First aid measures	
4.1. Inhalation – Not applicable	Wear mask for protection from dust when cutting profiles. Inhalation of noxious fumes: Resulting from fire or thermal decomposition. Remove patient to fresh air, keep warm and at rest. Apply artificial respiration if breathing has ceased.
4.2. Eye contact – Not applicable	Exercise care with edges and points on products.

4.3. Skin contact - Not considered to be a skin irritant	Exercise care with edges and points on products.
4.4. Ingestion	If dust from cutting is accidentally swallowed obtain immediate medical attention.
5. Fire fighting measures <p style="text-align: center;">Remove uninvolved people from the vicinity of the fire</p> <p>Extinguishing media: Dry powder, water mist, foam or carbon dioxide.</p> <p>Check for special circumstances: Use CO2 near live electrical equipment</p> <p>Protective equipment: In major fire situations, toxic and corrosive vapours will be evolved and self contained breathing apparatus and acid resistant protective clothing should be worn.</p>	
6. Accidental release measures <p>Not applicable to solid product. Sweep or vacuum up dust from cutting and store in a suitable container for disposal.</p>	
7. Handling and storage <p>Handling: Profiles may be up to 6 meters long, can protrude in storage and be dangerous to passers by. Profile packs may weigh up to 25kg and appropriate manual handling practices should be used.</p> <p>Storage: Profiles should be left in their protective packaging until fitting. Keep away from heat sources including direct sunlight and sources of ignition.</p>	
8. Exposure control/personal protection. <p>Personal protection: Observe good manual handling procedures.</p> <p>Exposure control: Use mask to prevent dust inhalation and eye protection when cutting profiles.</p> <p>Decomposition products: OES Hydrogen Chloride – STEL 5ppm; 8mg/m³ (15mins. TWA). OES Carbon Monoxide – STEL 200ppm; 232 mg/m³ (15mins. TWA). OES = Occupational Exposure Standard STEL = Short Term Exposure Limit TWA = Time Weighted Average</p>	

9. Physical and chemical properties

Form:

PVC-u in rigid or cellular products which have been extruded or injection moulded. **Relative**

Density:

Moulded and rigid products approximately 1.4g/cm³

Cellular products less than 0.6 g/cm³ **Flammability:**

The product is not flammable, resists ignition and does not promote flame spread.

Explosive properties:

The product is not explosive. **Solubility:**

Insoluble in water

Soluble in ketones

Decomposition temperature:

Time and temperature dependant, will occur with extended exposure to 150°C but with brief exposure above 220°C.

10. Stability and reactivity

General information:

PVC fully gelled product is relatively inert and used in accordance with standard practice is unlikely to cause any harmful effects.

Decomposition products:

Gaseous hydrogen chloride and carbon monoxide are evolved. Other organic decomposition products and metal oxides will be evolved but will not normally present an additional hazard.

11. Toxicological information

The products are based on an inert polymer and no toxic effects are anticipated under normal conditions of storage and use.

See sections 8 and 10 regarding toxic effects of decomposition products.

12. Ecological information

PVC products in fully gelled form are considered to be ecologically benign. The products contain a (many) hazardous substance(s) but being non-biodegradable by weathering or microorganisms ecological injuries are not known or expected under normal use.

13. Disposal considerations

Recycling is preferred to disposal or incineration. Disposal should be carried out in accordance with local, state or national legislation. Bury in an authorised landfill site or incinerate under approved controlled conditions.

14. Transport considerations

Not classified as hazardous for transport.

15. Regulatory information

15.1 EC label	The mixtures are classified as dangerous in accordance with Directive 1999/45/EC. The PVC products contain no unbound additives and are not classified.
15.2 Waste regulations	European Waste Catalogue (EWC) code for product: M1 12, 01, 99.
	EWC Packaging codes M1 15, 01, 01(Cardboard), M1 15, 01, 02 (Plastic) and M1 15, 01, 03 (Wood).

16. Other information

For reference purposes the risk phrases are:

R21:	Harmful in contact with skin.
R22:	Harmful if swallowed.
R38:	Irritating to skin.
R40:	Limited evidence of carcinogenic effect.
R43:	May cause sensitisation by skin contact.
R44:	Risk of explosion if heated under confinement.
R48/25:	Danger of serious damage to health by prolonged exposure if swallowed.
R50:	Very toxic to aquatic organisms.
R53:	May cause long term effects in aquatic environment. R60:
	May impair fertility.
R61:	May cause harm to unborn child.
R63:	Possible risk of harm to unborn child.
R68:	Possible risk of irreversible effects

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