

## **UPVC Cladding Sheet**

Colour: White

Fire rating: Class 1 (BS479) FDA approved for food contact

Meets building, food and hygiene regulations

## Data/Safety Sheet

1.	Substance/preparation and Company	Product Name : Rigid Polyvinyl
	detail	Chloride sheets
		Material Name : Polyvinyl Chloride
		Homopolymer
		CAS Number : 9002-86-2
		Material Synonyms : PVC
		NFPA Ratings : Health=1, Fire=0,
		Reactivity=0
		Direct Plastics Ltd
		Unit 14 Portland Business Park,
		Richmond Park Road,
		Sheffield,
		S13 8HS
		0114 2560889
2.	Composition / Indications to	Calcium-Zinc stabilized PVC sheets.
	components	Pigments and additives used to
		enhance specific properties are
		encapsulated in the polymer resin
		matrix.
		No solvents. No plasticizers. No
		cadmium, lead, or other heavy metals
		used.
3.	Possible dangers	No particular hazards known.
		Effects of a Single Overexposure
		Swallowing: Non-relevant
		Skin absorption: Non-relevant
		Inhalation: Non-relevant
		Skin contact: Exposure is not expected
		to cause adverse health effects
		Eye contact: Non-relevant
		Effects of a Repeated Overexposure:
		None currently known
		Medical Conditions Aggravated by
		Overexposure: None currently known
		Other Effects of Overexposure: None

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The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples.

We reserve the right of technical alterations.

		currently known
4.	First-aid measures	In general handling the material will not cause accidents.  Inhalation  If exposed to combustion fumes in high concentration - Bring victim to fresh air. Seek medical attention.  Ingestion  Non-harmful. If irritation caused, seek medical advice.  Skin Contact  Burns resulting from accidental contact with molten material must be flushed immediately with cold water.  Do not remove the polymer from the skin. Seek medical attention.  Skin Absorption  Non-harmful.  Eye Contact  Like any foreign object can cause irritation to the eye, Wash thoroughly with clean water and if symptoms persist, seek medical advice.
5.	Fire-fighting measures	Extinguisher type Water spray or CO2. CO2 is less recommended due to lack of cooling capacity. Extinguisher To Avoid No information currently available. Special Fire Fighting Procedures Personnel without suitable respiratory apparatus should leave the affected area to prevent exposure to toxic or combustible gases. Special Protective Equipment for Fire fighters Positive-pressure self-contained breathing apparatus, protective closing, gas mask approved for acid vapours. Unusual Fire and Explosion Hazards PVC is a self extinguishing fire retardant material, which being exposed to open fire and high temperatures decomposes emitting large quantities of HCI, which tends to extinguish the flames. It does not continue to burn after

		ignition without an external fire source.  HCl has a strong acidic odour that causes sensory alert at very low concentrations. HCl odour threshold = 0.77 ppm.  Exposure to high concentrations of HCl will cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes.  Soot emitted when PVC is forced to burn may obscure visibility.
6.	Measures in case of unintended release	No special precautions and no personal protective equipment needed. Collect mechanically for disposal.
7.	Handling and storage	Handling General handling precautions Avoid contact with eyes. Ventilation General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled. Other precautions No explosion hazard. In the event of fire, cool and overlap product with water. Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials. When opening truck or railcar for unloading, ventilate before entering. Storage Store in a cool shady area. No special technical protective measures required.
8.	Limitation of exposition	Respiratory protection: No special protection needed Hand protection/protection gloves: No special protection needed Eye protection: No special protection needed Other protective equipment: No special protection needed

9.	Physical and chemical characteristics	Appearance : Flat or corrugated
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		Physical State : Solid
		Colour : Clear or coloured
		Odour : None
		Density : 1.35-1.45 gr/cm3
		Heat Deflection : 62-65°C
		Boiling Point, 760 Hg: Not relevant
		Viscosity: Not relevant
		Solubility in Water : <0.1g/100mL at
		23oC
		pH Value : Not relevant
		Flash Point : 391ºC ASTM D 1929
		Auto-ignition Temp. : 454oC ASTM D
		1921
		Flammability Limit : None
		Explosion Limits : None
		Evaporation Rate : Not relevant
		Percent Volatiles : Not relevant
10.	Stability and reactivity	Stability
		Stable.
		Conditions to avoid
		Excessive heat, or open flame.
		Temperature above 150 °C will
		decompose raw polymer resin and
		liberate HCl.
		Incompatible materials
		Oxidizing agents or strong mineral
		acids can cause reaction.
		Thermal decomposition
		Begins above 150°C caused by fire,
		overheating during improper
		processing. Fumes damaging to
		health may be released.
		Hazardous decomposition products
		Burning can produce the following
		combustion products:
		Carbon monoxide (CO) - is highly toxic if inhaled;
		Carbon dioxide (CO2) - in sufficient
		concentrations can act as an
		asphyxiant;
		Hydrogen chloride (HCl) - in high
		concentrations cause irritation of the
		respiratory passages, at very high
		concentrations may cause burns to
		-
		mucous membranes.
		Reactivity
		Hazardous polymerization : Will not
		occur
		Hazardous reactions : None

11.	Toxic information	PVC materials have a very low acute
		toxicity.
		In rats an acute LD50 > 10 gr/kg of
		body weight. PNEUMOCONIOSIS has
		been described from inhalation of
		combustion products (effects of
		overexposure).
		Industrial hygiene studies have shown that under normal and
		expected conditions of use of PVC
		materials, exposures are well below
		applicable limits.
		Acute Toxicological Information
		Acute oral toxicity : None
		Acute percutaneous toxicity: None
		Acute vapour exposure : None
		Primary skin irritation : No irritation
		Eye irritation : No irritation
		Sensitization : No information
		available Chronic effects : Unknown
		Carcinogenicity: None
		Other Toxicological Information
		No known toxicological effects with
		normal use. For heating see section
		10.
		Additional Information
		No additional toxicity information
		currently available.
12.	Ecological information	Persistence and Degradability
		Detailed studies have not been
		conducted concerning the
		environmental fate of the product.  According to present knowledge no
		unfavourable ecological effects are to
		be expected.
		Not generally hazardous to water.
	· ·	Insoluble in water, non-toxic solid.
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: LC50 (fathead minnow – fish) - no
data available
OTHER INFORMATION
All available ecological data have
been taken into account for the
development of the hazard and
precautionary information contained
in this safety data.

13.	Waste-disposal information	The product is not considered hazardous under current EPA hazardous waste regulations. Recycling is the preferred method of disposal. Alternatively, the product may be disposed of in an approved landfill. High temperature incineration under controlled conditions due to formation of HCI. All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations, Toxicity Characteristic Leaching Procedures (TCLP), and disposed of as appropriate. This product does not contain any cadmium or other heavy metal pigments or stabilizers. It is the user's responsibility to dispose of all wastes in accordance with all national and local regulations at properly permitted or authorized facilities.
14.	Transport information	Additional transportation data: Not currently regulated under Department of Transportation regulations Labelling: No labelling is required in accordance with the EEC directives Placarding: No placarding is required in accordance with the EEC directives Special transport requirements: None Packaging: Avoid dark-coloured packaging to prevent heat distortion The product is classified as a non-hazardous material in the meaning of transport regulations.
15.	Regulation	With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits for fine dust must be observed: MAC value (fine

		dust) – 5mg/m3.  OSHA Hazard Communication  Classification for dusts and combustion fumes: Irritant, Skin  Hazard, and Lung Hazard.  SARA Title III Classification for dusts and combustion fumes: Acute Health  Hazard; Chronic Health Hazard.  WHMIS Classification: Non-hazardous
16.	Further information	The information is based on our current knowledge. They are meant to describe our products in respect to safety requirements. They do not represent any guarantee of the described product in the sense of the legal guarantee regulations.