# U-PVC
# Material Handling Sheet

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| **1.1 Product Identification** | |
| Tradename | Rigid Polyvinyl Chloride - PVC |
| **1.2 Company Identification** | |
| Address | Direct Plastics Ltd<br>Rother Valley Way<br>Holbrook<br>Sheffield<br>S20 3RW |
| Emergency Number | 0114 2560889 (during office hours) |

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| **2.1 Composition** | |
| Chemical Composition | Calcium-Zinc stabilized PVC sheets.<br>Pigments and additives used to enhance specific properties are<br>encapsulated in the polymer resin matrix.<br>No solvents. No plasticizers.<br>No cadmium, lead, or other heavy metals used. |
| **2.2 Information on Ingredients** | |
| This product contains no dangerous components | |

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| **3. Potential Risks** | |
| This product is not harmful | No particular hazards known.<br>Health Hazard Data<br>Effects of a Single Overexposure<br>Swallowing : Non-relevant<br>Skin absorption : Non-relevant<br>Inhalation : Non-relevant<br>Skin contact : Exposure is not expected to cause adverse health<br>effects<br>Eye contact : Non-relevant<br>Effects of a Repeated Overexposure - None currently known<br>Medical Conditions Aggravated by Overexposure - None<br>currently known<br>Other Effects of Overexposure - None currently known |

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| **4. First Aid Measures** | |
| Inhalation | Non-relevant<br>If exposed to combustion fumes in high concentration - bring<br>victim to fresh air and seek medical advice |
| Skin Contact | Burns resulting from accidental contact with molten material must be flushed immediately with cold water.<br>Do not remove the polymer from the skin and seek medical<br>advice. |
| Eye Contact | Like any foreign object can cause irritation to the |

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| | eye, Wash thoroughly with clean water and if symptoms persist,<br>seek medical advice. |
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| **5. Fire Fighting Measures** | |
| Suitable Extinguishing Media | Water spray or CO2. CO2 is less recommended due to lack of cooling capacity. |
| Unsuitable Extinguishing Media | None known |
| Special Protective Equipment For Firefighting | Positive-pressure self-contained breathing apparatus, protective clothing, gas mask approved for acid vapours |
| Additional Advice | PVC is a self-extinguishing fire retardant material, that being exposed to open fire and high temperatures, decomposes emitting large quantities of HCl, which tends to extinguish the flames. It does not continue to burn after ignition without an external fire source.<br>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. |
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| **6. Accidental Release Measures** | |

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| Environmental Precautions | No special precautions and no personal protective equipment needed. Collect mechanically for disposal. |
| Methods For Cleaning Up | Mechanical |
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| **7.1 Handling** | |
| General Advice | Avoid contact with eyes.<br>Ventilation:<br>General (mechanical) room ventilation is expected to be<br>satisfactory where this product is stored and handled. |
| Technical Measures | No explosion hazard. In the event of fire, cool and overlap product with water.<br>Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials. When opening truck or railcar for unloading, ventilate before entering. |
| **7.2 Storage** | |
| General Advice | Store in a cool shady area. No special technical protective measures required. |
| Special Requirements | None |
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| **8. Personal Protection** | |
| Respiratory Protection | No special protection needed |
| Eye Protection | No special protection needed |
| Skin Protection | No special protection needed |
| Hygiene Measures | General industrial hygiene regulations are to be observed Wash hands before breaks and at the end of the workday<br>Do not eat, drink or smoke in the workplace |

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| **9. Exposure Controls** | |
| Form | Solid (semi-finished or finished parts) |
| Colour | Various, dependent on colourant |
| Odour | Odourless |
| Density | 1.35-1.45 gr/cm3 |
| Heat Deflection | 62-65°C |
| Flash point | 391ºC ASTM D 1929 |
| Ignition Temperature | 454oC ASTM D 1921 |
| Explosion Limits | Not applicable |
| Solubility | <0.1g/100mL at 23oC |

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| **10. Stability & Reactivity** | |
| Conditions to Avoid | Excessive heat, or open flame. Temperature above 150 °C will decompose raw polymer resin and liberate HCl. |
| Substances to Avoid | Oxidizing agents or strong mineral acids can cause reaction. |
| Hazards Decomposition Products | Burning can produce the following combustion products:<br>Carbon monoxide (CO) - is highly toxic if inhaled;<br>Carbon dioxide (CO2) - in sufficient concentrations can act as an asphyxiant;<br>Hydrogen chloride (HCl) - in high concentrations cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes. |
| Thermal Decomposition | Begins above 150°C caused by fire, overheating during improper processing. Fumes damaging to health may be released. |

**11.Toxicological 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, exposu
below applicable limits.
Acute Toxicological Information
Acute oral toxicity : None
Acute percutaneous toxicity : None
Acute vapour exposure : None

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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

## 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.
Mobility : No information currently available
Persistence and biodegradability: Biodegradation period - tens of years.
Bio accumulative potential: No information currently available.
Environmental Risks
No hazard expectation to terrestrial or aquatic flora and fauna.
Eco toxicity : LD50 (rats) > 10 gr/kg
: IC50 (bacterial inhibition) - no data available
Aquatic toxicity : LC50 (daphnia magna) - no data available
: 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 in contained in this safety data.

## 13. Disposal Considerations

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 HCl.

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All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations, Toxicity Char
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 proper
permitted or authorized facilities

## 14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

## 15.EU Guidelines

With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits f
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

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