



CHEMVIN PLASTICS LTD

Material Safety Data Sheet

Page No: 1

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Approved:

Emergency Telephone: (09) 270 0030 (Hours 0800 – 1630) Monday to Friday

RAW MATERIAL: Lead-free Rigid PVC

CHEMICAL NAME: Lead-free - Unplasticised Polyvinyl Chloride

SUPPLIER: Chemvin Plastics Ltd

PHYSICAL PROPERTIES:

APPEARANCE: Powder or Cylindrical Pellets measuring up to 5mm diameter.

SPECIFIC GRAVITY: 1.40 - 1.50 approx.

INGREDIENTS:

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion</u>
PVC Resin (CH ₂ CHCl) _n	9002-86-2	>70%
Functional Additives as required		Balance
Stabilisers:	Organometallic tins, mixed metal salts and special purpose stabilisers.	
Process Aids:	Acrylics and Styrene acrylonitriles.	
Impact Modifiers:	Acrylics and Methacrylate Butadiene Styrenics.	
Fillers:	Metal carbonates (principally calcium, magnesium).	
Lubricants:	Paraffin waxes, mineral oils, polyethylene, salts of fatty acids and fatty acid esters and amides.	
Pigments:	Commercially available pigments based on iron oxide, carbon black, ultramarines, phthalocyanines, molybdates, quinacridones and other organic and inorganic pigments. In weatherable compounds, titanium dioxide may be present in concentrations of 10 - 15%.	

FIRE/ EXPLOSION DATA:

FLAMMABILITY: uPVC is self extinguishing and does not support combustion.

OXYGEN INDEX: 45% ASTM D2683

EARLY FIRE HAZARD:

Ignitability	10 - 12 }	
Heat Evolved	0 }	AS1530
Spread of Flame	0 }	
Smoke Evolved	6 - 8 }	

FLASH POINT (°C) 400 – 460

EXTINGUISHING MEDIA: Chemical Foam, Dry Chemical, CO₂

FIRE/ PERSONAL PROTECTION: When fighting fire, self-contained breathing apparatus and full protective clothing should be worn. Remove source of ignition.

SPECIFIC HAZARDS: **PVC decomposes when burned, evolving hydrogen chloride, carbon monoxide, and other toxic gases. Exposure to combustion products may be fatal and should be avoided.**

HEALTH HAZARDS:

SKIN:	No significant hazard. Possible reaction with allergenic dermatitis sufferers to uPVC dust.
EYE:	No significant hazard. Irritation, soreness of eyes to uPVC dust.
INGESTION:	No significant hazard.
INHALATION (of uPVC dust): (of fumes):	No significant hazard. Decomposing PVC yields toxic gases such as hydrogen chloride, carbon monoxide and carbon dioxide.

EMERGENCY ACTION:

SKIN CONTACT (dust only):	Wash hands with soap and water.
EYE CONTACT (dust only):	Flush eyes with water until particles are removed.
INGESTION:	No significant hazard.
INHALATION (of fumes):	If exposed to toxic fumes from decomposition of PVC, remove to fresh air. If breathing has stopped, give mouth-to-mouth resuscitation and get medical attention.

SPECIAL PROTECTION:

VENTILATION (fumes):	Local exhaust in hot processing areas.
PERSONAL PROTECTION:	Unless conditions are excessively dusty, no special precautions are required. In dusty areas, wearing of dust masks is recommended, and protective gloves for allergenic dermatitis sufferers.