SAFETY DATA SHEET
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Grade name P602, P682, P709, P737, P737P, P2170, P2280, P1510, P11, P1412, P1412M, P15, P1720, P2310, P2470

GHS Product Identifier Poly(vinyl chloride)

Alternative names PVC, Paste PVC, Emulsion PVC

REACH Registration No. Polymer exempt

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Used in flexible PVC applications such as floor and wall coverings, technical coatings, tarpaulins as well as specialist applications etc.

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company Identification

INOVYN ChlorVinyls Limited
Runcorn Site HQ
South Parade, PO Box 9
Runcorn, Cheshire, WA7 4JE
Tel : (01928) 561111, Fax : (01928) 516636

E-Mail (competent person) msds@inovyn.com

1.4 Emergency telephone number

IN AN EMERGENCY DIAL +44(0)1235 239 670 [CareChem 24] (Europe)
For specialist advice in an emergency telephone +44 (0)1928572000

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive 67/548/EEC & Directive 1999/45/EC Not classified

Regulation (EC) No. 1272/2008 (CLP). Not classified

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredient(s)	%(w/w)	CAS No.	EC No.	H - Codes	GHS Classification
Poly(vinylchloride)	>97	009002-86-2	-	-	-

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove patient from exposure, keep warm and at rest.
Obtain immediate medical attention if ill effects occur.

Skin Contact Wash skin with soap and water.

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
Obtain medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention if ill effects occur.

4.2 Most important symptoms and effects, both acute and delayed

May cause physical abrasion in contact with skin and eyes.
High concentrations of dust may be irritant to the respiratory tract.
Repeated exposure by inhalation may produce adverse effects on the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.
Low acute toxicity under normal conditions of handling and use.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water, foam, or CO_2.

Unsuitable Extinguishing Media

5.2 Special hazards arising from the substance or mixture

Combustible but not readily ignited under normal cirumstances/conditions.
Combustion or thermal decomposition will evolve toxic and irritant vapours. - Hydrogen chloride, Carbon monoxide, Carbon dioxide, fire soot.

5.3 Advice for fire-fighters

A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure suitable personal protection during removal of spillages. Protect against dust.

6.2 Environmental precautions

Avoid release to the environment. Contain spillages.

6.3 Methods and material for containment and cleaning up

Spillages should be collected by suction or moistened with water and swept / shovelled up into waste drums or plastic bags.
Transfer to a lidded container for disposal or recovery.

6.4 Reference to other sections

See Section: 8, 13

6.5 Additional information

Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of high concentrations of dusts. Provide adequate ventilation where operational procedures demand it. Avoid dust generation. Avoid build-up of dusts especially in the vicinity of electrical equipment and switchgear. Take precautionary measures against static discharges. Ensure adequate earthing.
During hot processing operations: Avoid inhalation of high concentrations of vapours.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep away from heat and sources of ignition.
Fixed storage vessels should be adequately earthed. Keep away from food, drink and animal feedingstuffs.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

HAZARDOUS INGREDIENT(S)	CAS No.	LTEL 8 hr TWA ppm	LTEL 8 hr TWA mg/m3	STEL (ppm)	STEL (mg/m³)	Notes
PVC Dust (Respirable)	009002-86-2	-	1.5	-	-	COM

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation.
Atmospheric levels should be controlled in compliance with the occupational exposure limit.

Personal Protection

Eye/face protection Wear suitable eye/face protection.
If dust is likely to be generated: Goggles giving complete protection to eyes.

Skin protection Wear suitable protective clothing and gloves.

Respiratory protection	A suitable dust mask should be worn if exposure to levels above the occupational exposure limit is likely. The selection of a suitable mask will depend upon the likely atmospheric concentration and the performance data of the mask. A suitable dust mask or dust respirator with filter type P may be appropriate.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Powder
Colour	white
Odour	odourless
Auto Ignition Temperature (Deg C)	450 Deg C , but no self-sustained flame
Explosive Properties	Deposited dust is weakly flammable and has no self-sustained flame. This product is classified as a dust explosive (class ST1) - (Weakly Combustible)
Specific Gravity	1,4 at 20 Deg C

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See Section: 10.3

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

With the exception of sulphuric acid (> 90%) and nitric acid (>50%), PVC is resistant to acids and alkalis up to 60 deg C. However, above this temperature the polymer is attacked by the stronger acids.

10.4 Conditions to avoid

Avoid accumulation of dust. Avoid dust generation.

10.5 Incompatible materials

See Section: 10.3

10.6 Hazardous Decomposition Product(s)

Thermal decomposition will evolve toxic vapours. (hydrogen chloride , carbon monoxide, carbon dioxide and fire soot) .

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

PVC powder may contain traces of vinyl chloride. See Section 15

Test result / data

Acute oral toxicity	Unlikely to be hazardous if swallowed.
Skin irritation.	May cause physical abrasion in contact with skin.
Serious eye damage/irritation	May cause physical abrasion in contact with eyes.
Respiratory irritation	High concentrations of dust may be irritant to the respiratory tract. Vapour released during hot processing may be irritant to the respiratory system.
Repeated dose toxicity	Repeated exposure by inhalation may produce adverse effects on the lungs.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not harmful to aquatic organisms.

12.2 Persistence and degradability

Solid with low volatility. The product is essentially insoluble in water.
The product shows no evidence for biodegradability in water. The product shows no evidence for biodegradability in soil.

12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

12.4 Mobility in soil

The product has no mobility in soil.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover and reclaim or recycle, if practicable. Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

PEVIKON™ grades may contain traces of vinyl chloride monomer (VCM). VCM is gaseous and can be slowly released into the surroundings. Such emission into processing plant atmospheres will only produce trace levels of VCM that are considerably lower than the stipulated limits.

Inventory Status

Listed in: Australia (AICS), Canada (DSL/NDSL), China (IECSC), Japan (ENCS), New Zealand Inventory (NZIoC), Philippines (PICCS), South Korea (KECI), Taiwan (NECI), United States (TSCA).

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this product.

16. SECTION 16: OTHER INFORMATION

Indication of changes The following sections contain revisions or new statements: 1,16

LEGEND

WEL : Workplace Exposure Limit (UK HSE EH40)
COM : The company aims to control exposure in its workplace to this limit
TLV : The company aims to control exposure in its workplace to the ACGIH limit
TLV-C: The company aims to control exposure in its workplace to the ACGIH Ceiling limit
MAK : The company aims to control exposure in its workplace to the German limit
Sk : Can be absorbed through skin
Sen : Capable of causing respiratory sensitisation
Bmgv : Biological monitoring guidance value (UK HSE EH40)
ILV : Indicative Limit Value (UK HSE EH40)
IOELV : Indicative Occupational Exposure Limit Value

Further information