

# MATERIAL SAFETY DATA SHEET

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## Manufacturer Information:

Product name : VINYFOIL C-4636  
Company : Mitsubishi Plastics, Inc.  
Address : Mitsubishi Jushi Bldg., 1-2-2 Nihonbashihongokucho,  
Chuo-ku, Tokyo 103-0021, Japan  
Department in charge : Electronics & High Performance Materials Dep.  
Tel. : +81-3- 3279-3042  
Fax. : +81-3-3279-6677  
Mail address : mpi7951@cc.mpi.co.jp  
Emergency phone No. : +81-3- 3279-3042  
Recommended and restriction in use : Cards

Serial No. **727-006**

Revision : March 4, 2008

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## 2. Summary of hazardous and toxicity

Name of classification : Not applicable  
Physical and chemical hazards : Not applicable  
Adverse human health effects : Not applicable  
Ecological effect : Not applicable

As toxic gas (content:HCl,CO<sub>2</sub>,CO) will form upon combustion, ventilate the area and wear protective equipment (breathing apparatus).

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## 3. Composition and ingredient

Single or mixture : Mixture  
Chemical name : Polyvinyl chlo-ride, polymer additives, stabilizer , white pigment etc.

Official gazette serial No. ( Chemical Safety Law) : Polyvinyl chlo-ride (6)-66

### Ingredient & content:

Ingredient:	Content	CAS No.
Polyvinyl chlo-ride	80%	9022-86-2
polymer additives, stabilizer etc.	20%	

Chemical formula : Polyvinyl chlo-ride (CH<sub>2</sub>CHCl)<sub>n</sub>

## 4. First aid measures:

Eye contact :Immediately wash with plenty of fresh water as it is likely to cause injury. If abnormal feeling occurs, ask for medical help.  
Skin contact : Not required  
Ingestion : Try to get the victim to vomit. If abnormal feeling occurs, ask for medical help.  
Inhalation :Remove the victim from the contamination immediately to fresh air. If

cough and suffocation will be occurred, refer for medical attention.

5. Fire fighting

Extinguishing method : Firefighters should wear proper protective equipment.  
Extinguishing media : Water, dry chemical, foam  
Others : As toxic gas (content: Cl, CO<sub>2</sub>,CO ) will form upon combustion,

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6. Accidental release measures

Precaution to human being : As this is a solid matter having certain shape, not applicable.  
Precaution to environment : Prevent the overflow product (such as cut dust) into river or outdoor causing adverse effect on the environment.

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7. Caution upon handling and storage

Handling : Keep the product away from the fire source. Don't wrap with plastic wrap directly to maintain the quality.  
As packed product is heavy, wear proper protective equipment for legs, hands and lap.  
Storage :Avoiding direct sunshine and moisture, store in a well-ventilated location. Prevent cargo breaks loose.

8. Exposure protection measures

Concentration limit (Ministry of Labor standard) : Not specified.  
Allowable concentration  
Japan Industrial Hygiene : Not specified.  
ACGHI : Not specified  
Facilities measures : .Not specified  
Protection gears:  
Respiratory protection : Not required  
Protection glasses : Not required  
Protective gloves : Not required  
Protective clothes : Not required

9. Physical & Chemical properties:

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Appearance : Solid (Sheets)  
Vapor pressure : None  
Volatility : None  
Boiling point : None  
Density : 1.4  
Melting point : None  
Solubility (Water) : Not soluble  
Other : Softning at 60°C

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10. Hazards identification (Stability & Reactivity) Polyvinylchloride

Flash point	: 390°C
Ignition point	: 455°C
Combustibility	: Self-extinguishing plastics; oxygen index 45
Spontaneous ignition:	
(Spontaneous combustibility or reactivity with water):	No ignition at normal temperatures.
Oxidizability	: Stable at normal temperatures
Self-reactivity /explosivity	: None
Stability/reactivity	: Stable in normal storage and handling

Hazard identification of Polyvinylchloride alone; Data on this sheet is not available as it is formed in sheet form by adding several additives to the chlorinated PVC.

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11. Toxicological information

Skin irritant properties	: No knowledge
Corrosive properties (skin and eyes)	: No knowledge
Allergenic and sensitizing effects	: No knowledge
Acute toxicity	: No knowledge
Sub-chronic toxicity	: No knowledge
Chronic toxicity	: No knowledge
Carcinogenic effects	: No knowledge
Mutagenic effects	: No knowledge
Effects on the reproductive system	: No knowledge
Teratogenic effects	: No knowledge

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12. Ecological information

Biodegradability	: None
Bioaccumulation	: None
Fish toxicity	: None
Other information on eco-toxicity	: None

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13. Caution upon disposal

Incinerate with an incinerator equipped with waste gas treatment facility. Dispose of by land-fill as non-hazardous waste. Dispose of residue and ash by land-fill as non-hazardous material, too.

14. Caution upon transportation

Care should be taken to prevent the cargo from breaking loose and breaking the packing bag or box. Avoid direct sunshine, moisture, sudden temperature changes.

15. Applicable law

Not in particular

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16. Utilization of above information

The above description has been prepared based on the latest data available. But, the physical properties, hazardous and toxicological information are not guarantee data. The cautions are mentioned for the case of normal handling. In the case of special handling, please apply safety precaution in consideration of application and method of using.

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Serial No. **727-005**

Revision : March 4, 2008

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## 4. Summary of hazardous and toxicity

Name of classification : Not applicable  
Physical and chemical hazards : Not applicable  
Adverse human health effects : Not applicable  
Ecological effect : Not applicable

As toxic gas (content:HCl,CO<sub>2</sub>,CO) will form upon combustion, ventilate the area and wear protective equipment (breathing apparatus).

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## 5. Composition and ingredient

Single or mixture : Mixture  
Chemical name : Polyvinyl chlo-ride, polymer additives, stabilizer etc.  
Official gazette serial No. ( Chemical Safety Law) : Polyvinyl chlo-ride (6)-66

### Ingredient & content:

Ingredient:	Content	CAS No.
Polyvinyl chlo-ride	85%	9022-86-2
polymer additives, stabilizer etc.	15%	

Chemical formula : Polyvinyl chlo-ride (CH<sub>2</sub>CHCl)<sub>n</sub>

## 4. First aid measures:

Eye contact :Immediately wash with plenty of fresh water as it is likely to cause injury. If abnormal feeling occurs, ask for medical help.  
Skin contact : Not required  
Ingestion : Try to get the victim to vomit. If abnormal feeling occurs, ask for medical help.  
Inhalation :Remove the victim from the contamination immediately to fresh air. If cough and suffocation will be occurred, refer for medical attention.

5. Fire fighting

Extinguishing method	: Firefighters should wear proper protective equipment.
Extinguishing media	: Water, dry chemical, foam
Others	: As toxic gas (content: Cl, CO <sub>2</sub> , CO ) will form upon combustion,

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6. Accidental release measures

Precaution to human being	: As this is a solid matter having certain shape, not applicable.
Precaution to environment	: Prevent the overflow product (such as cut dust) into river or outdoor causing adverse effect on the environment.

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7. Caution upon handling and storage

Handling	: Don't hold a flame. Don't cover in plastic wrap directly for quality assurance. As packed product is heavy, wear proper protective equipment for legs, hands and lap.
Storage	: Avoiding direct sunshine and moisture, store in a well-ventilated location. Prevent cargo breaks loose.

8. Exposure protection measures

Concentration limit (Ministry of Labor standard)	: Not specified.
Allowable concentration	
Japan Industrial Hygiene	: Not specified.
ACGHI	: Not specified
Facilities measures	: .Not specified
Protection gears:	
Respiratory protection	: Not required
Protection glasses	: Not required
Protective gloves	: Not required
Protective clothes	: Not required

9. Physical & Chemical properties:

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Appearance	: Solid (Sheets)
Vapor pressure	: None
Volatility	: None
Boiling point	: None
Density	: 1.4
Melting point	: None
Solubility (Water)	: Not soluble
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Mutagenic effects	: No knowledge
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Teratogenic effects	: No knowledge

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12. Ecological information

Biodegradability	: None
Bioaccumulation	: None
Fish toxicity	: None
Other information on eco-toxicity	: None

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13. Caution upon disposal

Burn in a chemical incinerator equipped with a scrubber. Dump on the ground as non-hazardous waste. Residuals and ash as non-hazardous dump on the ground, too.

14. Caution upon transportation

Care should be taken to prevent the cargo from breaking loose and breaking the packing bag or box. Avoid direct sunshine, moisture, sudden temperature changes.

15. Applicable law

Not in particular

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16. Utilization of above information

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