

MATERIAL SAFETY DATA SHEET

Manufacturer Information:

Product name : VINYFOIL C-85050、SO
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- 3283-4182
Fax. : +81-3-3216-1253
Mail address : mpi7951@cc.mpi.co.jp
Emergency phone No. : +81-3- 3283-4182
Recommended and restriction in use
: Heat & Flame resistant Rigid PVC Sheet for electrical insulation

Serial No. **727-007**

Revision : March 4, 2008

:

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,CO₂,CO) will form upon combustion, ventilate the area and wear protective equipment (breathing apparatus).

3. Composition and ingredient

Single or mixture : Mixture
Chemical name : Chlorinated polyvinyl chloride, polymer additives,
stabilizer, white pigment etc.
Official gazette serial No. (Chemical Safety Law) : Chlorinated polyvinyl chloride (6)-75

Ingredient & content:

Ingredient:	Content	CAS No.
Chlorinated polyvinyl chloride	85%	68648-82-8
polymer additives, stabilizer etc.	15%	

Chemical formula : Chlorinated polyvinyl chloride (CHCl-CHX)_n, X=H or Cl

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, CO₂, CO) will form upon combustion,

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.

7. Caution upon handling and storage

Handling : Keep away from fire source. Don't cover with plastic wrap directly for maintaining product 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:

Appearance : Solid (Sheets)
Vapor pressure : None
Volatility : None
Boiling point : None
Density : 1.45
Melting point : None
Solubility (Water) : Not soluble

Other

: Softning at 60°C or higher

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.

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

12. Ecological information

Biodegradability : None

Bioaccumulation : None

Fish toxicity : None

Other information on eco-toxicity : None

13. Caution upon disposal

Incinerate with incinerator equipped with a waste gas treatment facilities. Or dispose of by land-fill as non-hazardous waste. Residue and ash from the incinerator and also dispose of as non-hazardous material.

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

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 handing. In the case of special handling, please apply safety precaution in consideration of application and method of using.

MATERIAL SAFETY DATA SHEET

Manufacturer Information:

Product name : VINYFOIL C-850 SW
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

: Heat & Flame resistant Rigid PVC Sheet for electrical insulation

Serial No. **727-008**

Revision : March 4, 2008

:

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,CO₂,CO) will form upon combustion, ventilate the area and wear protective equipment (breathing apparatus).

5. Composition and ingredient

Single or mixture : Mixture
Chemical name : Chlorinated polyvinyl chloride, polymer additives,
stabilizer, white pigment etc.
Official gazette serial No. (Chemical Safety Law) : Chlorinated polyvinyl chloride (6)-75

Ingredient & content:

Ingredient:	Content	CAS No.
Chlorinated polyvinyl chloride	80%	68648-82-8
polymer additives, stabilizer etc.	20%	

Chemical formula : Chlorinated polyvinyl chloride (CHCl-CHX)_n, X=H or Cl

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, CO₂, CO) will form upon combustion,

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.

7. Caution upon handling and storage

Handling : Keep away from fire source. Don't cover with plastic wrap directly for maintaining product 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:

Appearance : Solid (Sheets)
Vapor pressure : None
Volatility : None
Boiling point : None
Density : 1.45
Melting point : None
Solubility (Water) : Not soluble

Other

: Softning at 60°C or higher

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.

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

12. Ecological information

Biodegradability : None

Bioaccumulation : None

Fish toxicity : None

Other information on eco-toxicity : None

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

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 handing. In the case of special handling, please apply safety precaution in consideration of application and method of using.