



## COMPILE REPORT OF MSDS

No: UTS0811942

Report Date: 2008/12/11

**Applicant** : Tongzhou Huaming Plastic Co., Ltd.  
**Address** : Sanweidaicun, Jiangzao Town, Tongzhou, Nantong, Jiangsu, China



The following sample was submitted and identified by/on behalf of the applicant as:

**Product Name** : PVC Film

**Receiving Date** : Nov 27, 2008

**Compiling Period** : Nov 27, 2008- Dec 5, 2008

**Compile Requested** : MSDS report of products

**Compile Results** : Please refer to appurtenance page1-4

Signed for and on behalf of UTS

Jeffery Chou, General Manager

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江苏省优联检测技术有限公司

地址：江苏省苏州市吴中区东吴北路31号C幢 215128  
电话 (Tel): +86(0)512-89178190/89178191

UNITED TESTING SERVICES (JIANGSU) CO., LTD.

Address: Building C, No. 31, North Dongwu Rd., Suzhou, Jiangsu, P.R.China, 215128  
传真 (Fax): +86(0)512-89178192

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## MATERIAL SAFETY DATA SHEET

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	: PVC Film
APPLICATION	: Industrial Use, Toy Use
SUPPLIER	: Tongzhou Huaming Plastic Co., Ltd. Sanweidaicun, Jiangzao Town, Tongzhou, Nantong, Jiangsu, China
EMERGENCY TEL.	: +86(0)513-82533409
CONTAINER SIZE	: N/A

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Weight in Percent (%)	Notes
Polyvinyl Chloride Resin	9002-86-2	>50	
TOTM	3319-31-1	>30	

#### Other Information:

NOTE: The percentage by weight values reported for this product represent approximate formulation values.

### 3 HAZARDS IDENTIFICATION

#### Emergency Overview:

**Color:** Hyaline

**Form:** Film

**Odor:** Slight odor

**Flash Point, °C:** Not Applicable

**Most Important Hazards:** There are no significant health hazards from vinyl compound at ambient temperature. Inhalation of decomposition or combustion products, especially hydrogen chloride, will cause irritation of the respiratory tract, eyes and skin. Depending on the severity of exposure, physiological response will be coughing, pain and inflammation. Individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchospasm if exposure is prolonged.

### 4 FIRST AID MEASURE

**INGESTION:** Small amounts are not likely to cause damage.

**EYES:** May cause slight irritation during welding operations.

**SKIN:** Should not pose a hazard in normal use.

**NOTES TO PHYSICIAN:** Supportive care. Treatment based on physician's judgment in response to patient's reactions.

### 5 FIRE-FIGHTING MEASURES

#### General information

As in any fire, wear a self-contained breathing apparatus in pressure-demand and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

#### Suitable extinguishing agents

In case of fire, use water spray, ABC dry chemical, AFFF, protein type air foams. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity, Which may result in reignition.

Special hazards caused by the material, its products of combustion or resulting gases.

CO, CO<sub>2</sub>, hydrogen chloride and small amounts of benzene and aromatic and aliphatic hydrocarbons.

#### Protective equipment

Mount respiratory protective device



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## 6 ACCIDENTAL RELEASE MEASURES

### Person-related safety precautions

Use proper personal protective equipment as Exposure controls and personal protection.

### Measures for environmental protection

Do not allow to enter sewers/ surface or ground water.

### Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill

Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV.

## 7 HANDLING AND STORAGE

### Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

### Engineering measures

Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

### Storage

Stable under normal conditions of handling and storage. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limit

National authorities have established limits for particulates not otherwise classified that are the least stringent exposure limits applicable to dusts.

ACGIH TLV: undetermined

ACGIH TLV: undetermined

### Personal Protective Equipment

Safety glasses with side shields. Wear suitable gloves.

### Respiratory Protection

Not normally required. If overheating results in decomposition resulting in smoke or fumes, a NIOH/MSHA approved combination high efficiency particulate filter with organic vapor cartridge can be used. Gross decomposition may require the use of a positive pressure self-contained breathing apparatus.

### Ventilation

Provide efficient exhaust at all operations capable of creating fumes or vapors. Cutting or sawing, machining, heat welding, thermofolding and other operations involving heat sufficient to result in degradation should be examined to ensure adequate ventilation.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form: Film

Colour: Hyaline

Odour: Slight odor

### Change in condition

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Melting point/Melting range: undetermined  
Boiling point/Boiling range: undetermined  
Flash point: Not applicable  
Flammability: Combustible  
Self igniting: Product is not self igniting.  
molecular weight: 70000~100000  
Density: about 1.3g/cm<sup>3</sup>  
Danger of explosion: Product does not present an explosion hazard.

## 10 STABILITY AND REACTIVITY

### Conditions to avoid

None known

### Materials to avoid

None known

### Hazardous reactions

Hazardous polymerization does not occur.

### Hazardous decomposition products

Conditions: Decomposition occurs above temperature listed below :

Decomposition temperature: > 388°C

Decomposition products: carbon monoxide (CO), carbon dioxide(CO<sub>2</sub>), hydrogen chloride and small amounts of benzene and aromatic and aliphatic hydrocarbons.

## 11 TOXICOLOGICAL INFORMATION

### Low toxicity

### Primary irritant effect

on the respiratory: Special hazards caused by the material repeated respiratory contact may defat respiratory diseases

on the eye: Low, reversible irritation.

### Sensitization

None known.

### Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available

### Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may Arised.

## 13 DISPOSAL CONSIDERATIONS

Incineration, Recycle

All local and national regulations should be followed.

## 14 TRANSPORT INFORMATION

### ROAD/RAIL

Other Not regulated for transport.

### SEA

Not regulated for transport.



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## AIR

Not regulated for transport.

## 15 REGULATORY INFORMATION

### EC label

EU Dangerous Substances Directive 67/548/EC.

## 16 OTHER INFORMATION

This product may contain other copolymers, colour additives, heat stabilizers, flame retardants and/or other performance additives. Under normal use conditions, these additives are contained within the polymer matrix and occupational exposures are expected to be minimal.

Data sheets prepared or revised have been completed in accordance with the European Communities Directive 2001/58.

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