



MATERIAL SAFETY DATA SHEET

Product Name: 5401 SOFT PVC COMPOUND FOR TRANSFUSION APPLICATION

Effective Date: Oct.16, 2006

Reference: ISO 11014-1:1994(E)

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification

Product Name: 5401 SOFT PVC COMPOUND FOR TRANSFUSION APPLICATION

Chemical Name: Polyvinyl chloride resin

Description: A range of polyvinyl chloride mixture compounds.

Formula: Not Applicable

Synonym: None

1.2 Company Identification

Shanghai New Shuanghua Polymer Material Co., Ltd.

No.1578 YangShuPu Rd., Shanghai, China 200090

Tel: 86-21-65193960x601

Fax: 86-21-35121836

Visit on the Web at www.shanghaichemical.com

1.3 EMERGENCY TELEPHONE NUMBER

Tel: 86-21-65193960x358 (For Chinese Only)

2. COMPOSITION INFORMATION

- ◆ Polyvinyl chloride
- ◆ Phthalates
- ◆ Epoxidized soybean oil
- ◆ calciumzinc stabilizer

This product is mixtures of compounds, none of which are classified as hazardous in accordance with Classification and Labels of Dangerous Chemical Substance Commonly Used (GB13690-92).



3. HAZARDS IDENTIFICATION

Emergency Overviews

- ◆ Pellets with slight odor
- ◆ Spilled material may create slipping hazard
- ◆ This material is not considered to be hazardous in the solid state.
- ◆ During processing, the material is not considered to be hazardous if keeping the temperature under 200°C.
- ◆ The processing temperature exceed 200°C for a long period, Polyvinyl chloride will decompose which will cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever.
- ◆ Molten plastic can cause severe thermal burns

Skin Contact

Normally no effect. The material is inert in the solid state and can be handled using normal industrial hygiene. Wash hands with soap and water before taking food and at the end of shifts.

Fumes evolved during processing

Inhalation of the fumes may cause malaise, eye and respiratory tract irritation. Good ventilation by local fume-extraction is recommended in order to keep employee exposure as low as reasonably practical.

4. FIRST AID

4.1 Eye Contact

Immediately flush eyes with plenty of water for 15 minutes. Remove contact lenses. Seek medical advice if irritation persists.

4.2 Skin Contact

Remove clothing, any jewelry, when touch the melt material. Wash the area thoroughly with room temperature tap water. Do not remove the cold adhesive from the skin. Seek medical advice.

4.3 Inhalation

If inhalation large volume of fumes must immediately leave the place for fresh air and keep breathing. Adopt the oxygen therapy if difficult breathing. Adopt artificial respiration if breath stops. Seek medical advice.

4.4 Ingestion

First aid not normally required.



5. FIRE FIGHTING MEASURES

5.1 Flammable Properties

Flash Point-Closed Cup: Not determined.

Flash Point-Open Cup: Not determined.

Auto ignition Temperature: Will not self-igniting without fire

5.2 Extinguishing Media

Extinguish fires with water spray or carbon dioxide or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

5.3 Special Protective Equipment For Firefighters

Use self-contained breathing apparatus and protective clothing.

5.4 Fire and Explosion hazards

Explosion and Dust and fume produced by fire may result in the irritation of the eyes and respiratory tract irritation.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled:

Sweep up and collect in suitable container for disposal or recycling.

Caution: Polyethylene pellets on floors are slippery and can cause falls.

6.1 Personal Precautions: Wear suitable protective equipment.

6.2 Environmental Precautions: To prevent littering, avoid releases to surface waters.

7. HANDLING AND STORAGE

7.1 Handling

- ◆ General Handling
- ◆ Do not handle or empty bag or liner in presence of flammable vapor
- ◆ Keep container closed and water-proof
- ◆ Use with adequate ventilation
- ◆ For industry use only



7.2 Storage

Products should be stored in well-ventilated warehouse with dry atmosphere at ambient temperature.

The effective date would be 12 months after the manufacture date.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

A continuous supply of fresh air to the workplace together with removal of processing fumes, dust and vapor through exhaust systems is recommended

8.1 Respiratory Protection

Not required under normal conditions of use. Under typical circumstances need breathing apparatus.

8.2 Protective Gloves

Required when working with hot melt and hot machinery

8.3 Eye Protection

Not required under normal conditions of use. Under some specific circumstances, may need safety spectacles. Keep environment well-ventilated.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Form:	diameter 3-4mm, length 2-3mm Solid granules
	Solubility in Water:	Not determined
	Odor:	Negligible odor
	Color:	Natural

Physical and Safety Data:

Density	1.20-1.24g/cm ³
Percent Volatiles:	≤1.0 Wt%
Ignition Temperature:	N/A
Auto-ignition Temperature:	N/A
Vapor Pressure at 20°C:	N/A
Melting Point:	N/A



10. STABILITY AND REACTIVITY

Stability Stable – Avoid temperatures above 180°C. Prolonged exposure to temperatures over 180°C may cause product decomposition. Overexposure to the decomposition products may result in headache, nausea, and irritation of the eyes, skin and respiratory tract. Local exhaust ventilation is recommended for control of airborne dust, fumes and vapor.

Thermal Decomposition Products

Carbon monoxide
Carbon dioxide
Hydrogen chloride

Hazardous Polymerization

Will not occur

Inhibitors/Stabilizers

N/A

11. TOXICOLOGICAL INFORMATION

Not toxic

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate

Degradation of this polyethylene product is not anticipated under environmental exposure conditions.

12.2 Ecotoxicity

Information may be available, please advice.

13. INFORMATION ON WASTE DISPOSAL

Dispose in accordance with all applicable Federal, State, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

No legal requirements.

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15.REGULATORY INFORMATION

This product is in compliance with all rules and orders of Safety Regulation for Hazardous Chemicals (Issued by Chinese State Council on March 15, 2002), Rule for Storage of Chemical Dangers (GB15603-1995) (Issued by Technology Supervision Bureau (TBS) on February 1, 1996).

This product and components are not controlled product and not classified as hazardous according to Classification and Labels of Dangerous Chemical Substance Commonly Used (GB13690-92).

16. OTHER INFORMATION

The purpose of this sheet is to supply information about health and safety and it should not be treated as a specification for product properties.