



Zibo Intco Medical Products Co., Ltd

No.18 Qingtian Road, Qilu Chemical Industry Park, Zibo, Shandong, China

Tel:+86533-7527018 Fax:+86533-7527019

Safety data sheet

Section 1: Identification

Section 1,

1) **Chemical Name : Poly Vinyl Chloride (PVC)**

2) **Advisable use and Restriction**

Advisable use :

- **Used for various use such as pipe, profile, synthetic leather, wallpaper.**

Restriction of product using :Used for recommended use.

Company: ZIBO INTCO MEDICALPRODUCTS CO.,LTD

Tel :+86 0533 7527018

Fax:+ 86 0533 7527018

Section 2: Hazard(s) Identification

Section 2,

1) **Hazard classification : Not classified**

2) **Allocation label elements**

Precautionary statements

[Prevention] : Not applicable

[Response] : Not applicable

[Storage] : Not applicable

[Disposal] : Not applicable

3) **Other hazard information not included in hazard classification**

NFPA Rating system : Health: 1, Flammability: 0, Reactivity: -

Section 3: Composition/Information on Ingredients

Section 3,

Chemical Name	Common name Synonyms	CAS No.	Content (%)
Poly Vinyl Chloride (PVC)	Chloroethylene polymer	9002-86-2	100 %

Section 4: First-Aid Measures

Section 4, First aid measures

1) Eye contact:

- Keep away from exposure if exposure effect occurred.
- In case of contact with substance, flush eyes with amount of water for at least 15 minutes.
- In case of contact with chemicals, get medical advice/attention.

2) Skin contact:

- Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes.
- Get medical attention if skin symptoms occurred.
- Wash contaminated clothing and shoes before reuse.

3) Inhalation:

- Move victim to non-contaminated place in fresh air.
- Get medical attention if irritation or symptoms occurred.
- Give artificial respiration if victim is not breathing.

4) Ingestion:

- Get medical attention if swallowed amount of substance.
- Get medical attention if irritation or symptoms occurred.

5) Indication of immediate medical attention and notes for physician:

- Call emergency medical service. Get medical advice/attention, if you needed.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5: Fire-Fighting Measures

Section 5, Fire-fighting measures

1) Suitable (and unsuitable) extinguishing media:

○ Suitable extinguishing media: dry chemical, CO₂, water, regular foam

2) Specific hazards arising from the chemical (ex: hazardous combustion products):

- Containers may explode when heated.
- It may produce HCl and toxic gases when combusted.
- It begins to decompose at above 100 °C according to the increase of corrosive hydrogen chloride gas.
- Thermal decomposition products: ethyl chloride, phosgene, vinyl chloride monomer, carbon

3) Special protective equipment and precautions for fire-fighters:

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

Section 6: Accidental Release Measures

Section 6, Accidental release measures

1) Personal precautions, protective equipment and emergency procedures:

- Stop leak if you can do it without risk.
- Isolate exposed area.
- Keep unauthorized personnel away.
- Use certified protective equipment.
- Ventilate the leaked area.

2) Environmental precautions and protective procedures:

- Ensure adequate ventilation.

- Prevent entry into waterways, sewers or basements.

3) The methods of purification and removal:

- Do not touch or walk through spilled material.

- Prevent entry into waterways, sewers, basements or confined areas.

Section 7: Handling and Storage

Section 7, Handling and storage

1) Precautions for safe handling:

- Wash thoroughly after handling.

- Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures.

2) Conditions for safe storage:

- Store in a closed container.

- Keep away from waterways and sewers.

Section 8: Exposure Controls/Personal Protection

Section 8, Exposure controls/personal protection

1) Occupational Exposure Limits

	Poly Vinyl Chloride (PVC)
Korean Occupation of Safety and Health Regulation	Not available
ACGIH	TWA= 1 mg/m ³
OSHA	Not available
NIOSH	Not available
Biological exposure index	Not available
EU Regulation	<ul style="list-style-type: none"> • Ireland – TWA: 10 mg/m³ (total inhalable dust); 4 mg/m³ (respirable dust) • Bulgaria – TWA : 6.0 mg/m³ (dust) • Italy - TWA : 1 mg/m³ (respirable fraction)
Other	<ul style="list-style-type: none"> • Austria – STEL: 10 mg/m³ • Canada- TWA: 1 mg/m³ TWA (respirable fraction), STEL: 10 mg/m³ STEL (total dust) • Japan- TWA: 1 mg/m³ OEL (respirable dust); 4 mg/m³ OEL (total dust)

2) Appropriate engineering controls

- Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of

vapors below their respective threshold limit value.

- Check legal suitability of exposure level.

3) Personal protective equipment:

○ **Respiratory protection:** Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.

○ **Eye protection:**

- An eye wash unit and safety shower station should be available nearby work place.

- Wear safety glasses to protect eyes from scattering toxic substance.

○ **Hand protection:** Wear chemical resistant gloves to avoid direct contact with chemical substance.

○ **Body protection:** Wear appropriate protective chemical resistant clothing to prevent exposure of skin.

Section 9: Physical and Chemical Properties

Section 9, Physical and chemical properties

1) Appearance	Solid / white
2) Odor	Odorless
3) Threshold of odor	Not available
4) pH	Not available
5) Melting point/freezing point	302 °C
6) Initial boiling point and boiling range	Not available
7) Flash point	Not available
8) Evaporation rate	Not available
9) Flammability (solid, gas)	Not available
10) Upper/lower flammability or explosive limits.	Not available
11) Vapour pressure	Not available
12) Solubility(ies)	Insoluble
13) vapour density	Not available
14) Specific gravity /Density	1.406 g/cm ³ (20 °C)
15) n-octanol/water partition coefficient	Not available
16) Auto ignition temperature	435 °C
17) Degradation temperature	Not available
18) Viscosity	Not available
19) Molecular weight	60,000 ~ 150,000 g/mol

Section 10: Stability and Reactivity

Section 10, Stability and reactivity

1) Chemical stability and Possibility of hazardous reactions:

- Stable under normal temperatures and pressures.

2) Conditions to avoid (e.g., static discharge, shock or vibration):

- Avoid heat, flames, sparks and other sources of ignition.

- Avoid contact with incompatible materials.

3) Incompatible materials: Avoid contact with strong acid, heat, flames, sparks and other sources of ignition.

4) Hazardous decomposition products: ethyl chloride, phosgene, vinyl chloride monomer, carbon

Section 11: Toxicological Information

Section 11, Toxicological information

Information of Health Hazardous:

Acute toxicity:

- oral: Not available
- dermal: Not available
- Inhalation: Not available

Skin Corrosion/ Irritation: Not available

Serious Eye Damage/Irritation: Not available

Respiratory sensitizer: Not available

Skin Sensitization: Not available

Carcinogenicity: Not classified

- IARC: Group 3

- ACGIH, NTP, OSHA, EU Regulation 1272/2008, US EPA: Not listed

Mutagenicity: Not classified

- In vitro -Ames test (Samonella typhimurium): Negative

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not classified

- In rats, inhalation of fumes from heated polyvinyl chloride produced interstitial edema, as well as focal

bronchial and intra-alveolar hemorrhage in the lungs of some animals. However, it is not enough data to classify the toxicity of this substance.

Specific target organ toxicity (repeat exposure): Not available

- Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in fibrosis. However, This evidence for the classification is not enough.

Aspiration Hazard: Not available

Section 12: Ecological Information* (non-mandatory)

- 1) Ecological toxicity:
 - Acute toxicity: Not available
 - Chronic toxicity: Not available
- 2) Persistence and degradability: Not available
- 3) Bioaccumulative potential: Not available

- 4) Mobility in soil: Not available

Section 13: Disposal Considerations* (non-mandatory)

- 1) Disposal method:
 - - Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- 2) Disposal precaution:
 - - Consider the require attentions in accordance with waste treatment management regulation.

Section 14: Transport Information* (non-mandatory)

- 1) UN Number: Not applicable
- 2) UN Proper shipping name: Not applicable
- 3) Transport Hazard class: Not applicable
- 4) Packing group: Not applicable
- 5) Marine pollutant: Not applicable
- 6) Special precautions
 - in case of fire: Not applicable
 - in case of spill: Not applicable

Section 15: Regulatory Information* (non-mandatory)

- Korea:
 - Occupational Safety and Health Regulation: Not regulated
 - Toxic Chemical Control Act: Not regulated
 - Dangerous Material Safety Management Regulation: Not regulated
 - Wastes Control Act: Not regulated
- EU classification:
 - • Classification: Not applicable
 - • Risk phrases: Not applicable
 - • Safety phrases: Not applicable
- U.S.A management information:
 - • OSHA (29CFR1910.119) : Not regulated
 - • CERCLA 103 (40CFR302.4): Not regulated
 - • EPCRA 302 (40CFR355.3): Not regulated
 - • EPCRA 304 (40CFR355.4): Not regulated

- • EPCRA 313 (40CFR372.65): Not regulated
- • United States - Section 8(b) Inventory (TSCA): XU
- ○ Japan management information:
- - Inventory-Existing and New Chemical Substances (ENCS) = (6)-66; (6)-67; (6)-76; (6)-1633
- ○ China management information:
- - Inventory of Existing Chemical Substances (IECSC) = Present
- ○ Canada management information:
- - Domestic Substances List (DSL) = Present
- ○ Philippines management information :
- - Inventory of Chemicals and Chemical Substances (PICCS) = Present
- ○ Australia management information :
- - Inventory of Chemical Substances (AICS) = Present
- ○ Substance of Roterdame Protocol: Not regulated
- ○ Substance of Stockholme Protocol: Not regulated
- ○ Substance of Montreal Protocol: Not regulated

Section 16: Other Information

1) Information source and references:

- U.S. National library of Medicine (NLM) Hazardous Substances Data Bank (HSDB):

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB.htm>

- U.S. National library of Medicine (NLM) Chemical Carcinogenesis Research Information System (CCRIS):

(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS>)

- IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Geneva:

World Health Organization, International Agency for Research on Cancer, 1972-PRESENT (Multivolume

work)., p. S7 216 (1987)

- Korea Occupational Health & Safety Agency: <http://www.kosha.net>
- AKRON: <http://ull.chemistry.uakron.edu/erdl>
- ACGIH, TLV and BEIs # 0108, 2008
- IPCS INCHEM: <http://www.inchem.org/documents/icsc/icsc/eics1487.htm>

- National chemicals information systems (<http://ncis.nier.go.kr>)

2) Issue date : 1997. 04. 01

3) Revision number and date : 2011. 05. 02 (6th)

4) Other material safety data sheet information:

- This MSDS were made of the informational purposes for the safe handling when education or use of the

production department workers. Therefore we make no guarantee for result obtained, and assume no

responsibility for damages incurred by use of this product. But the material used for the purpose of the data

requested is available for further information.

*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).