



MATERIAL SAFETY DATA SHEET

POLYVINYL CHLORIDE (PVC)



1. PRODUCT & COMPANY IDENTIFICATION

- Product Name : Vinyl Chloride Polymer
RYURON – PVC RESIN
- Company Name : PT. STANDARD TOYO POLYMER
- Address : Plaza Bank Index 7th Floor
Jl. M.H. Thamrin No. 57
Jakarta - Indonesia
Phone Number + 62 - 21 - 3903132
Fax Number + 62 - 21 - 3903301
- Emergency Assistance : PT. STANDARD TOYO POLYMER – Merak Factory
+ 62 - 254 – 571221

2. COMPOSITION AND INFORMATION OF INGREDIENT

- Chemical Name : Poly Vinyl Chloride
- Synonim : PVC, Vinyl Chloride Polymer
- CAS No. : 9002-86-2
- Component : PVC 99,9 %
- Chemical Formula : (CH₂-CHCl)_n
- GHS Classification : Not Hazardous in GHS criteria

3. HAZARDS IDENTIFICATION

A. POTENTIAL ACUTE EFFECT

- Acute Toxicity (Oral) : Not classified / LD50 > 5000mg,
The influence of administering is not shown
- Acute Toxicity (Skin) : Not classified / Data are insufficient
- Acute Toxicity (Inhalation Dust) : Not classified / Data are insufficient
- Skin Corrosive / Irritating : Not classified / Data are insufficient
- Irritate to Eyes : Not classified / Data are insufficient
- Sensitization Characteristics
to Respiratory Organs or Skin : Not classified / Data are insufficient
- Variation Abiogenesis to Germ Cel : Not classified / Data are insufficient
- Carcinogenicity : Not classified / Data are insufficient
- Reproduction Toxicity : Not classified / Data are insufficient
- Specific Organ / Whole Body Toxicity : Not classified / Data are insufficient
- Aspiration Respiratory Organs Toxicity : Not classified / Data are insufficient



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B. ENVIRONMENTAL INFLUENCE

- Aquatic Environmental Hazardous Property (Acute & chronic) : Not classified / Data are insufficient

C. PHYSICAL AND CHEMICAL HAZARDOUS PROPERTIES

- Explosives : Not applicable
- Flammable Solid : Out of classification
- Self-reactivity Chemical : Not applicable
- Spontaneous Combustive Solid : Not applicable
- Self-exothermal Chemicals : Out of classification
- Water Reactive Flammable Chemicals : Not applicable
- Oxidative Solid : Not applicable
- Organic Peroxide : Not applicable
- Metal Corrosive Substance : Not applicable

4. FIRST AID MEASURES

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|--------------|---|
| Inhalation | : If inhaled, removed to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Skin Contact | : Flush skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes . |
| Eye Contact | : Do not rub. Immediately flush skin with plenty water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get medical immediately. |
| Ingestion | : Rinse mouth with water. Give a glass of water to drink. Seek medical advice. |

5. FIRE FIGHTING MEASURES

- | | |
|---------------------------------|---|
| Extinguishing Media | : If material is involved in a fire, used water fog, foam, dry agent (carbon dioxide, dry chemical powder) |
| Special Fire Fighting Procedure | : In the event of fire, may emit toxic fumes, including those of hydrogen chloride, carbon monoxide and carbon dioxide. Wear self-contained breathing apparatus (SCBA) and suitable full protective clothing for prevent risk of exposure to vapour or product of combustion. |



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6. MEASURES AGAINST LEAKAGE

Small Spills	: Wear appropriate personal protective equipment. Avoid inhalation direct contact. Sweep or vacuum up. Collect waste in appropriate container for disposal.
Large Spills	: Wear appropriate personal protective equipment. Avoid inhalation direct contact. Work up wind or increase ventilation. Sweep or vacuum up. Collect waste in appropriate container for disposal.
Environmental Precaution	: Keep spiled material away from heat and spark. Ensure adequate ventilation. Avoid spilled material carries by flow to sewage, river and sea area.

7. HANDLING AND STORAGE

Handling	: During handling products, wear protective glasses and dust protective mask. Avoid contact with eyes , skin and inhalation of dust.
Storage	: Store in cool, dry, well ventilated place and out of direct sunlight.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Measures	: Use local exhaust ventilation or wearing dust mask producing operations. Use in well ventilation areas. Avoid generating and inhaling dust.
Personal protection equipment	: <u>Respiratory Protection</u> : Wear dust mask <u>Eye protection</u> : Wear safety glasses <u>Skin Protection</u> : Wear gloves and/or suitable long-sleved clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance	: White powder
Odor	: Odorless
Boiling Point	: Not applicable
Melting Point	: Not applicable
Ignitation Temperature	: 391 ^o C



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Flash Ignition Temperature	: 454 ^o C
Combustibility	: Self-extinguishing resin with oxygen indeks of approximately 45 property polymer
Ignition Characteristics	: Not ignite at the normal temperature.
Dust Explosiveness	: Stable in the term of dust explosiveness
Vapor Pressure	: Not applicable
Specific Gravity	: 1.4 (20 ^o C)
Solubility	: Insoluble in water
Volatility	: Not applicable
Oxidative Property	: Stable at the normal temperature

10. STABILITY AND REACTIVITY

Stability	: Stable under recommendad storage condition
Incompatible Materials	: Strong oxidizing agent, acids, heat
Hazardous decomposed products	: HCl, CO, CO ₂

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	: No data available
Local Irritation	: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity	: No data available
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13. DISPOSAL CONSIDERATION

Disposal Method	: This product must be disposed of in accordance with federal, state and local environmental regulation. Incinerate in incinerator which has exhaust gas treatment system or landfill it as non-dangerous waste
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14. TRANSPORTATION INFORMATION

International Regulation	: Not listed
DOT Proper Shipping Name	: No special regulation
DOT PSN CODE	: ZZZ
IMO Proper Shipping Name	: Polyvinyl Chloride



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IMO PSN CODE : ZZZ
 IATA Proper Shipping Name : Polyvinyl Chloride
 IATA PSN CODE : ZZZ
 Caution at Transportation : Caution, avoid damage to container and collapse.
 Should be handled in accordance with warning of handling and storage.

15. REGULATORY INFORMATION

ENCS : Existing chemical substance
 Regulation of Waste Disposal & Cleaning : Industrial waste
 High Pressure Gas Safety Regulation : Not applicable
 Fire Fighting Regulation : Not applicable or non-hazard product
 Toxic Regulation : Not applicable
 Nautical Safety Regulation : Not applicable
 Labor Safety Hygienic Law : Not applicable as report subject in the 57-2 article
 PRTR Law : Not applicable as applicable chemical substance in the 2 article

16. OTHER INFORMATION

Reference

- 1) "Japan Industrial Hygiene Society Magazine" Number 45. (2003)
- 2) "ACGIH", Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices (2002)
- 3) "Plastics Data Handbook" compiled by Kimimasa Ito, Industry Research Society (1980)

Created : July 30, 1997
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DISCLAIMER

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of date issues. PT. Standard Toyo Polymer make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from it use.