

# Material Safety Data Sheet (SDS) — PVC Resin (Polyvinyl Chloride)

Issued by: Ledes Product Development

Issue date: 2025-11-21

Version: 1.01

## 1. Identification

Product identifier: PVC Resin (Polyvinyl Chloride, rigid grades)

Recommended use: Raw polymer for extrusion of electrical conduit, fittings and other PVC products.

Manufacturer / Supplier: Ledes®

Contact: Room 101, Building #1, No. 6 Hupan Road, Dalingshan town, Dongguan, Guangdong Province, China

## 2. Hazard(s) Identification

Summary: PVC resin in its finished pellet form is generally not classified as a health hazard under normal handling. Potential hazards relate to dust generation and thermal decomposition products. Refer to Sections 8 and 10 for controls and reactivity.

GHS classification (typical): Not classified as hazardous (solid polymer).

Label elements: No signal word required for solid resin under normal conditions. Use warning for dust and thermal decomposition.

## 3. Composition / Information on Ingredients

Substance	CAS No.	Typical concentration
Poly(vinyl chloride) (PVC)	9002-86-2	≤ 100%
Vinyl chloride (residual monomer)	75-01-4	Trace, typically < 1 ppm
Additives (heat stabilizers, processing aids, pigments)	various	< 5%

## 4. First-aid Measures

Inhalation: If exposed to dust, move to fresh air. If respiratory irritation or other symptoms persist, seek medical attention.



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**Skin contact:** For bulk resin: wash with soap and water. If molten PVC contacts skin, cool rapidly with water and seek medical attention. Do not remove adhered molten polymer.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

**Ingestion:** Unlikely route for pellets; if ingested and symptoms occur, seek medical advice.

## 5. Fire-fighting Measures

**Extinguishing media:** Use water spray, foam, dry chemical or CO<sub>2</sub>. Avoid direct application of high-pressure water streams which may spread molten material.

**Hazards from combustion products:** Thermal decomposition generates hydrogen chloride (HCl), carbon monoxide (CO), and other organochlorine fragments. Use appropriate respiratory protection.

**Special protective equipment for fire-fighters:** Full PPE, self-contained breathing apparatus (SCBA).

## 6. Accidental Release Measures

**Personal precautions:** Avoid inhalation of dust. Use respiratory protection if ventilation is inadequate. Avoid contact with molten material.

**Environmental precautions:** Avoid release to surface waters. Contain spill and sweep up pellets; do not wash to drains.

**Methods for containment and clean up:** Collect mechanically (vacuum or sweeping). Dispose according to local regulations.

## 7. Handling and Storage

**Handling:** Minimize dust generation. Use good housekeeping to avoid slips and dust accumulation. For extrusion: follow thermal processing controls to avoid overheating.

**Storage:** Store in a cool, dry area, away from direct sunlight and sources of ignition. Keep packaging closed to avoid contamination.



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## 8. Exposure Controls / Personal Protection

Occupational exposure limits (examples):

- Vinyl chloride monomer (VCM): OSHA PEL 1 ppm (8-hr TWA) (see 29 CFR 1910.1017). ACGIH TLV 1 ppm (note: local limits may vary).

Engineering controls: Local exhaust ventilation for dusty operations, enclosed processing lines for extrusion.

Personal protective equipment (PPE): Safety glasses, gloves, and dust respirator (N95 or P2) for dust. For thermal operations, use heat-resistant gloves and face shield.

## 9. Physical and Chemical Properties

Appearance: White/off-white powder or pellet

Odor: Odorless (thermal decomposition: sharp acidic fumes)

Melting / Softening: Thermoplastic; softens and melts at processing temperatures (typically > 160°C)

Boiling point: Not applicable (polymer)

Vapor pressure: Not applicable

Solubility: Insoluble in water; soluble in chlorinated solvents

Specific gravity: ~1.35 (varies by grade)

## 10. Stability and Reactivity

Stability: Stable under normal storage and handling. Avoid overheating and open flames.

Conditions to avoid: Excessive heat, ignition sources, incompatible materials (strong oxidizers, certain amines).

Hazardous decomposition products: Hydrogen chloride (HCl), CO, CO<sub>2</sub>, and other organochlorine compounds.



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## 11. Toxicological Information

Acute toxicity: Product considered of low acute oral/inhalation toxicity in pellet form. Dust may cause mechanical irritation of respiratory tract.

Chronic effects: Vinyl chloride monomer (impurity) is a recognized carcinogen; residual levels in commercial PVC resin are typically extremely low. See manufacturer SDS for measured residual VCM levels.

## 12. Ecological Information

Eco-toxicity: No specific data for polymer. Pellets can cause physical hazards to marine life if released to waterways. Avoid environmental release.

## 13. Disposal Considerations

Disposal: Dispose of in accordance with local, regional, national and international regulations. Incineration should use appropriate flue gas cleaning to remove acidic gases.

## 14. Transport Information

UN Number: Not regulated as dangerous goods in solid pellet form in most jurisdictions. Transport per local rules. If material is molten or contaminated, classification may differ.

## 15. Regulatory Information

Regulatory notes: Vinyl chloride (residual monomer) subject to reporting in some jurisdictions (e.g., Proposition 65 in California). Users should consult local regulatory lists.

## 16. Other Information

Prepared by: Technical Team — Ledes (example). The information in this SDS is based on current knowledge and intended to describe the product with respect to safety requirements; it is not a guarantee of product properties.



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