Richest Group
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product	PVC Resin SG-3	**Revision date**	2026-11-16
Version	1.0	**Brand**	Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	PVC Resin SG-3
Synonyms	Polyvinyl chloride; PVC homopolymer resin
CAS No.	9002-86-2
EC No.	Not assigned
Molecular formula	(C2H3Cl)n
Molecular weight	Variable (polymer, polydisperse)
Relevant identified uses	Raw material for vinyl fabrication: wire and cable, hoses, footwear, soft films and other flexible PVC products
Uses advised against	No specific uses advised against were identified in the reviewed sources.
Company	Richest Group
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	0086 21 5017 5386
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	0086 21 5017 5386

SECTION 2: Hazards identification

GHS Classification	Not classified as a hazardous substance or mixture according to Regulation (EC) No 1272/2008
Pictogram(s)	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None
Other hazards	No other hazards were identified in the reviewed sources.

SECTION 3: Composition/information on ingredients

Component	PVC Resin SG-3
CAS No.	9002-86-2
EC No.	Not assigned
Classification	Not classified as a hazardous substance or mixture according to Regulation (EC) No 1272/2008
Concentration	≤100% PVC (as stated in uploaded MSDS)

SECTION 4: First-aid measures	
If inhaled	Inhalation: move to fresh air
In case of skin contact	Skin: wash with soap and water.
In case of eye contact	Eyes: flush immediately with water while holding eyelids open.
If swallowed	Ingestion: give 1–2 glasses of water to dilute, never give anything by mouth to an unconscious person, and obtain medical attention.
Most important symptoms and effects	No data available
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to medical personnel.

SECTION 5: Fire-fighting measures	
Suitable extinguishing media	Use carbon dioxide, extinguishing powder or water spray; use water spray for larger fires. Wear an approved SCBA and full protective clothing. Formosa reports St 0/Kst = 0 for the tested 120–130 µm resin, but smaller particles may differ. ICSC advises water spray, powder, foam or carbon dioxide and warns of toxic fumes on heating.
Unsuitable extinguishing media	No data available
Special hazards arising from the chemical	No data available
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing appropriate for the surrounding fire.

SECTION 6: Accidental release measures	
Personal precautions and emergency procedures	Avoid contact with the material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Prevent uncontrolled release to drains, soil and watercourses.
Methods for containment and cleaning up	Avoid dust formation, inhalation and direct contact; restrict access and wear appropriate PPE. Keep material out of drains and waterways. Collect with a dust-controlling method such as a HEPA vacuum and place in an appropriate disposal container.

SECTION 7: Handling and storage	
Precautions for safe handling	Avoid inhalation, direct contact and dust formation. Keep away from heat, sparks, open flames and hot surfaces; no smoking. Store in closed, properly labelled containers protected from heat, damage, ignition sources and incompatible materials.
Conditions for safe storage, including incompatibilities	Cool, dry and ventilated area

SECTION 8: Exposure controls/personal protection	
Occupational exposure limit values	No data available
Biological limit values	No biological limit values were identified in the reviewed sources.
Appropriate engineering controls	Formosa lists an 8-hour US PEL of 15 mg/m³ as total dust and 5 mg/m³ as respirable dust, and an 8-hour TLV of 1 mg/m³ as respirable dust. Use local exhaust ventilation for dust/mist-producing operations; assess respiratory protection by industrial-hygiene risk assessment. Use work gloves, safety glasses with side shields and protective work clothing; wash thoroughly after handling.
Eye/face protection	Use safety eyewear appropriate to the risk of exposure.

SECTION 8: Exposure controls/personal protection	
Skin and body protection	Wear suitable protective gloves and clothing appropriate to the risk of exposure.
Respiratory protection	Use suitable respiratory protection if exposure limits may be exceeded or dust, mist or vapour is generated.
Thermal hazards	No specific thermal hazards were identified in the reviewed sources; see Sections 5 and 10.

SECTION 9: Physical and chemical properties	
Physical state	Solid (granules, powder)
Colour	White.
Odour	Odourless under normal conditions; a slight odour may develop after prolonged storage in an unventilated container.
Melting point / freezing point	Not determined in the Formosa SDS; no single melting point is reported for this polymeric resin.
Boiling point / boiling range	Not applicable — polymeric solid with no true boiling point; Formosa reports Not determined, and ICSC states that PVC decomposes on heating.
Flammability	Combustible; finely dispersed particles may form explosive mixtures in air
Explosion / flammability limits	LEL/UEL: Not applicable in the Formosa SDS. As-supplied resin of approximately 120–130 µm had Kst = 0 bar·m/s (St 0, non-explosive dust); smaller particles may differ. ICSC warns of dust explosions for finely dispersed PVC.
Flash point	391°C
Auto-ignition temperature	454°C
Decomposition temperature	No numerical temperature reported; ICSC states that PVC decomposes on heating, producing toxic fumes including hydrogen chloride and phosgene.
pH	Not applicable — water-insoluble solid resin (Formosa SDS).
Viscosity	Not applicable — solid powder; no viscosity value is reported.
Solubility	Insoluble in water
Partition coefficient n-octanol/water	Not applicable as a single high-molecular-weight polymer value; the Formosa SDS reports n-octanol/water partition coefficient as Not determined.
Vapour pressure	Not determined in the Formosa SDS.
Density and/or relative density	1.4 g/cm³
Relative vapour density	Not applicable — solid resin (Formosa SDS).
Particle characteristics	Powder. Formosa's dust-combustibility test used resin with a particle size of approximately 120–130 µm; smaller particle sizes may have different combustibility characteristics.
Colour / odour	White; odourless
Melting behavior	Softens above ca. 80°C; decomposes before melting

SECTION 10: Stability and reactivity	
Reactivity	Stable under anticipated conditions of use (Formosa SDS). ICSC reports violent reaction with fluorine.
Chemical stability	Stable under anticipated conditions of use; store closed and protect containers from heat, physical damage, ignition sources and incompatible materials.

SECTION 10: Stability and reactivity	
Possibility of hazardous reactions	No dangerous reactions known in the Formosa SDS; ICSC separately identifies violent reaction with fluorine.
Conditions to avoid	Avoid dust formation, heat, sparks, open flames and hot surfaces.
Incompatible materials	Fluorine (ICSC). Formosa also requires containers to be protected from incompatible materials but does not list additional substances.
Hazardous decomposition products	No data in the Formosa SDS; ICSC identifies hydrogen chloride and phosgene among toxic fumes produced on heating.

SECTION 11: Toxicological information	
Acute toxicity	Based on available data, the GHS acute-toxicity classification criteria are not met (Formosa SDS).
Skin corrosion irritation	Not expected to cause skin irritation (Formosa SDS).
Serious eye damage irritation	Mechanical eye irritation is possible (Formosa SDS).
Carcinogenicity	ACGIH A4 — not classifiable as a human carcinogen (ICSC/ACGIH entry). Formosa reports residual vinyl chloride monomer at <1 ppm on average (0.0001%); vinyl chloride is listed as a carcinogen under California Proposition 65.
Additional information	May cause respiratory irritation. ICSC states that repeated or prolonged inhalation of PVC dust particles may affect the lungs and may result in fibrosis (pneumoconiosis).

SECTION 12: Ecological information	
Ecotoxicity	No quantitative ecotoxicity data available in the consulted Formosa SDS or ICSC entry.
Other adverse effects	Formosa identifies no transport environmental hazard; keep spilled material out of sewage/drainage systems and waterways.

SECTION 13: Disposal considerations	
Product disposal methods	Maximize product recovery for reuse or recycling. Dispose of waste in accordance with applicable laws and regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local regulations.

SECTION 14: Transport information	
UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	Not regulated as dangerous goods
Environmental hazards / Marine pollutant	No
Special precautions for user	Keep containers closed and secured during transport. Follow local transport requirements.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	Formosa: not classified as hazardous under the US Hazard Communication Standard or GHS; TSCA and Canadian DSL listed; SARA 355 and SARA 313 not listed; not hazardous for DOT/ADR/IMDG/IATA transport. California Proposition 65 warning relates to residual vinyl chloride (<1 ppm on average). SDS conforms to REACH Article 31 and classifies under CLP and 29 CFR 1910.1200.

SECTION 16: Other information

Full text of H-Statements	None
Revision date	2026-11-16
Version	1.0
References	Supplier technical documents, public SDS/COA/TDS and regulatory sources reviewed. Public data citations are listed below. Public data sources: Formolon Suspension PVC Homopolymer Resin — Safety Data Sheet, Version 9 (24 July 2020): https://www.fpcusa.com/content/uploads/2021/06/502-SDS-EN.pdf | ICSC 1487 — Polyvinyl Chloride: https://www.inchem.org/documents/icsc/icsc/eics1487.htm
Abbreviations	CAS: Chemical Abstracts Service; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; SDS: Safety Data Sheet.
Disclaimer	The information in this SDS applies to the specified product and is provided in good faith based on information available to Richest Group at the date of issue. It describes health, safety and environmental requirements and does not constitute a guarantee of product properties. Users must assess suitability and comply with applicable regulations.