

Name:	Poly(vinyl chloride) high molecular weight Material Safety Data Sheet
Synonym:	PVC; Ethylene, chloro-, polymer; Chlorethene homopolymer; Chlorethylene polymer; Vinyl chloride polymer; Poly(chlorethylene)
CAS:	9002-86-2

Section 1 - Chemical Product

MSDS Name: Poly(vinyl chloride) high molecular weight

Synonym: PVC; Ethylene, chloro-, polymer; Chlorethene homopolymer; Chlorethylene polymer; Vinyl chloride polymer; Poly(chlorethylene)

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
9002-86-2	Poly(vinyl chloride)	100	206-625-7

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated. Cancer suspect agent.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Experimental carcinogen. Chronic inhalation of dust can cause pulmonary damage, blood effects, and abnormal liver function.

Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section.

Avoid generating dusty conditions. Provide ventilation. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep away from heat and flame. Keep away from sources of ignition.
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 9002-86-2: United Kingdom, WEL - TWA: 10 mg/m³ TWA (inhalable dust); 4 mg/m³ (respirable dust) United Kingdom, WEL - STEL: 30 mg/m³ STEL (inhalable dust); 12 mg STEL (respirable dust) Japan: 1 mg/m³ OEL (respirable dust); 4 mg/m³ OEL (total dust) Netherlands: 2.5 mg/m³ MAC (dust) Russia: 6 mg/m³ TWA (inhalable dust)

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Off - White Powder

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: 435 deg C (815.00 deg F)

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density: 1.4000g/cm³

Molecular Formula:

Molecular Weight:

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Reacts violently with F₂. Ordinary temperatures cause slow dehalogenation producing hydrogen chloride.

Conditions to Avoid:

Incompatible materials, light, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Hydrogen chloride, phosgene, carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 9002-86-2: KV0350000 LD50/LC50:

Not available.

Carcinogenicity:

Poly(vinyl chloride) - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 9002-86-2: 0

Canada

CAS# 9002-86-2 is listed on Canada's DSL List.

CAS# 9002-86-2 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 9002-86-2 is listed on the TSCA inventory.