

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Polyvinyl Chloride (PVC) Rigid Compound

Abbreviation: PVC

CAS No.: 9002-86-2

Product Description:

Intended Use: Landscape and Paver Edging.

COMPANY IDENTIFICATION

Manufacturer/Distributor: SRW Products
32005 126th Street
Princeton, MN 55371

Emergency (800) 424-9300
Product Technical Information (800) 752-9326

SECTION 2 HAZARDS IDENTIFICATION

- Compounded PVC is an inert material in its normal usage.
- Listed below are typical chemical ingredients that are encapsulated within the PVC polymeric matrix.
- Contains no chemicals subject to SARA 302 or 311/312 reporting.
- May contain equal to or less than 1.0 ppm residual vinyl chloride monomer.
- Inhalation: Rodents exposed to PVC by dietary of inhalation route for 8-24 months have shown no significant toxicological effects.
- May contain equal to or less than 300 ppm Lead

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

When compounded, PVC compounds may contain the following components, at the listed ranges:

Material Percent Range

Polyvinyl Chloride Polymer 65-95% PVC Resin

Impact Modifier 5-10% Methylmethacrylate Copolymers

Inert Fillers 0-10% C_aCO_3

Heat Stabilizer 1-10% Organometallic compounds of tin.

Colorant 0-5% Organic and inorganic colorants (can contain lead, chromium, cadmium and mercury at non-detectible levels).

Flame Retardant 0-10% Antimony Trioxide, Aluminum Trihydrate. Lubricants 0-

5% Acrylic polymers

Processing Aids 0-5% Acrylic polymers

PVC Compound may contain less than or equal to 1.0 ppm residual vinyl chloride monomer. Vinyl chloride is regulated as a carcinogen according to OSHA and listed by NTP and IARC as a carcinogen.

SECTION 4 FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately. Call a physician.

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Skin: Flush with water to remove material from skin.

Inhalation: Remove to fresh air.

Ingestion: If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Nature of Hazard: Handling of PVC compound may result in the generation of dust. The dust is classified as a nuisance dust. Exposure to the dust may cause physical irritation of contacted areas.

Under burning conditions, HCl gas will be produced. HCl gas is irritating to the upper respiratory tract. Exposure to high concentrations of HCl gas may be harmful.

PVC compound may contain trace amounts of vinyl chloride monomer. VCM is regulated as a carcinogen by OSHA, and is listed by NTP and IARC as a carcinogen. Under normal processing conditions significant exposure to VCM should not occur.

Other processing vapors may produce irritation or acute health effects in some individuals.

SECTION 5	FIRE FIGHTING MEASURES
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Extinguishing Method: Water, ABC Dry Powder, Protein Type Air Foams, (CO₂ may be ineffective)

Unusual Fire & Explosion Hazards: PVC evolves Hydrogen Chloride, Carbon Monoxide and other toxic gases when burned. Exposure to combustion products may be fatal and should be avoided.

Flash Point: N/A

Flammable Limits: N/A

Special Fire Fighting Procedures: If in the event of burning of the material, wear self-contained breathing apparatus to prevent inhalation of combustible gases.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Eye Protection: Safety glasses.

Skin Protection: Wear protective gloves when cleaning condensate from exhaust hoods or other surfaces.

Respiratory Protection: If conditions warrant, use NIOSH approved respiratory device.

Ventilation Recommended: Local – Exhaust fumes or vapors from workers
Mechanical – Equal to outdoors.

Steps for Material Spillage: Contain spillage and scoop up or vacuum and dispose of in containers. Avoid dusting.

Waste Disposal Method: Disposal must be made in accordance with federal, state, and local regulations.

SECTION 7	HANDLING AND STORAGE
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Protect containers against physical damage, store in dry area away from feed and food products. Keep containers sealed to avoid contamination.

Hygienic Practices in Handling and Storage:

Handle under well ventilated conditions.

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Do not store or consume food in processing areas.

Cool regrind before placing in containers.

Avoid breathing fumes.

Prevent accumulation of pellets in walkways.

Store in dry place away from moisture, excessive heat and sources of ignition.

OTHER PRECAUTIONS:

Avoid making and breathing dust. Use with adequate ventilation. Wash thoroughly after handling, and before eating, drinking and smoking.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls: Provide a continuous supply of fresh air to the workplace as well as local and general exhaust ventilation to remove processing fumes. Avoid skin contact with and treat as hazardous any condensed vapors in exhaust hoods and ducts. All metal surfaces contacting the molten polymer should be stainless steel or surface treated to prevent corrosion and interaction with PVC that can lead to evolution of hazardous decomposition products.

Eye Protection: Safety Glasses.

Skin Protection: Wear protective gloves when cleaning condensate from exhaust hoods or other surfaces.

Respiratory Protection: If conditions warrant, use NIOSH approved respiratory device.

Ventilation Recommended: Local – Exhaust fumes or vapors from workers. Mechanical – Equal to outdoors.

No exposure limits have been established for this material. It is recommended that exposure be kept below the limits for particulates not otherwise classified.

OSHA-PEL: 15mg/M³ 8 hr-TWA (total dust)

5 mg/M³ 8 hr-TWA (respirable)

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point (°F): N/A - Solid

Specific Gravity (H₂O – 1): (SEE SPECIFIC COMPOUND DATA SHEET)

Density [G/cm³]^[13] 1.3 – 1.45 Vapor

Pressure (mm Hg): N/A - Solid Percent

Volatile By Volume: N/A

Vapor Density (Air – 1): N/A - Solid

Evaporation Rate: N/A

Melting Point: Varies

Solubility in Water: N/L - Solid

pH: N/A

Appearance & Odor: Plastic pellet with slight odor

SECTION 10**STABILITY AND REACTIVITY**

Stability: Stable

Conditions to Avoid: None

Incompatibility:

Materials to Avoid: Acetal or Acetal copolymers, Amine Containing Materials Hazardous

Polymerization: Will Not Occur

Conditions to Avoid: None

Hazardous Decomposition Products: CO, CO₂, HCl, Aliphatic and other miscellaneous Hydrocarbons

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SECTION 11**TOXICOLOGICAL INFORMATION**

No known toxicological effects with normal use. PVC materials have a very low acute toxicity. In rats an acute LD₅₀ > 10 gr/kg of body weight. Pneumoconiosis has been described from inhalation of combustion products (effects of overexposure).

Industrial hygiene studies have shown that under normal and expected conditions of use of PVC materials, exposures are well below applicable limits.

SECTION 12**ECOLOGICAL INFORMATION**

Detailed studies have not been conducted concerning the environmental fate of the product. According to present knowledge no unfavorable ecological effects are to be expected. Not generally hazardous to water. Insoluble in water, non-toxic solid.

No hazard expectation to terrestrial or aquatic flora and fauna.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Disposal must be made in accordance with federal, state, and local regulations.

The product is not considered hazardous under current EPA hazardous waste regulations. Recycling is the preferred method of disposal. Alternatively, the product may be disposed of in an approved landfill. High temperature incineration under controlled conditions due to formation of HCl. All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations, Toxicity Characteristic Leaching Procedures (TCLP), and disposed of as appropriate. This product does not contain any cadmium or other heavy metal pigments or stabilizers. It is the user's responsibility to dispose of all wastes in accordance with all national and local regulations at properly permitted or authorized facilities.

SECTION 14	TRANSPORT INFORMATION
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This product is classified as a non-hazardous material in the meaning of transport regulations. No labeling is required in accordance with EEC directives or special placarding required.

SECTION 15	REGULATORY INFORMATION
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With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits for fine dust must be observed: MAC value (fine dust) – 5mg/m³. OSHA Hazard Communication Classification for dusts and combustion fumes: irritant, skin hazard, and lung hazard.

SARA Title III Classification for dusts and combustion fumes: Acute health Hazard; Chronic Health Hazard.

WHMIS Classification: Non-Hazardous

SECTION 16	OTHER INFORMATION
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THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementation of GHS requirements.

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The information and recommendations contained herein are, to the best of SRW Products knowledge and belief, accurate

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