

1. Product & Company Identification

Product Name : Polyvinyl Chloride Compound
Other Name : PVC Compound
Recommended use restricted use : Wire Cable

Details of the supplier of the safety data sheet

Premier Farnell
150 Armley Road
Leeds LS12 2QQ
Tel. : +44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

2. Hazard Identification

Item Hazard Classification : None
Marked Content : RoHS, REACH
Other Hazards : No special hazards

3. Ingredient Identification Information

Mixture:

Chemical properties : Polyvinyl Chloride Compound (recyclable)

Hazardous substance	CAS No.	Concentration or Concentration range (%)
Polyvinyl Chloride resin	9002-86-2	48.6%
Plasticizers	3319-31-1	21.9%
Stabilizer	Mixture	2.5%
Filler	471-34-1	24.8%
Flame resisting agent	1309-64-4	1.2%
Colour	Mixture	1.0%

4. First-Aid Measures

At room temperature the product is neither an irritant nor gives off hazardous vapours. The measures listed below apply to critical situations (Fire, incorrect process conditions).

Inhalation:

Dust and process vapours may irritate the nose, throat and respiratory tract. If symptoms are experienced, move victim to fresh air. Obtain medical attention if breathing difficulty persists.

Skin contact:

If molten material contacts the skin it may cause thermal burns, immediately flush with large amounts of cold water to cool the affected skin and polymer. Do not attempt to peel the polymer from skin. Obtain immediately emergency medical attention if burn is deep or extensive.

Eye Contact:

Dust, fines and process vapours may irritate the eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if discomfort persists.

Ingestion:

Adverse health effects due to ingestion are not anticipated. Do not induce vomiting. If symptoms develop, obtain medical attention.

The most important symptoms and hazards

At room temperature PVC plastic particles on health without any harm, at 200°C above the release of HCL (hydrogen chloride) will stimulate the respiratory tract Protection of first aid personnel: Molten sheet will produce thermal burns. Tips for Physicians life hazard.

5. Fire Fighting Measures

Suitable extinguishing media : Foam, dry chemicals, CO₂, water

Advice for fire-fighters : High heat and thick black smoke

Special fire-fighting procedures:

PVC plastic particles will not burn, but if continuous heating, easy to decompose in the fire to produce HCL, CO, CO₂

Special protective equipment for fire- fighters:

A self-contained breathing apparatus and suitable protective clothing, etc. should eye protection be used in fire conditions.

Hazardous Decomposition Product Combustion or thermal decomposition will evolve toxic and irritant vapours.

6. Spill or Leak Containment Measures

Individuals should note : Material creates dangerous slipping hazard on hard surfaces.

Precautions to avoid environmental damage:

Avoid release to environment. Do not allow to enter drains, sewers or watercourses Clean-up:

1. Take up mechanically and collect in suitable container for disposal.
2. Good housekeeping must be maintained to avoid potential slipping problem.
3. Keep walking surface free of spilled material to avoid slipping hazard.

7. Precautions for Safe Handling & Storage

Handling:

No special requirements necessary, if handled at room temperature.

Avoid spilling the product, as this might cause falls.

Storage:

Storage temperature should be ambient. (preferably below 50°C)

Open flames prohibited.

Store the product in bags, car silos, container, or large cartons to avoid contamination.

Protect from heat and direct sunlight.

Store container in a well ventilated position.

Store under dry conditions.

Specific applications: For industrial use only, for safe stacking follow the storage recommendations specific for this product.

8. Exposure Control/Personal Protection

Engineering Controls:

Use in a well-ventilated area. If handling results in dust generation, special ventilation may be needed to minimize dust exposure. If heated material generates vapour or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

Occupational Exposure Limits□

TLV-TWA/TLV-STEL/TLV-C : ---/---/---

LD50 / LC50 : ---

Personal Protective Equipment:

Respiratory system:

It is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Hand protection : Use of gloves is good industrial practice.

Eye protection : Safety glasses with side shields.

Skin and body : Wear heat-resistant protective gloves, clothing and face shield able to withstand the temperature of the molten product.

Other Work Practices : Do not eat, drink or smoke at the work place.

After handling, wash face and hands before eating, drinking or smoking.
Maintain good job management.

9. Physical and chemical properties

Physical state : Solid Granules

Colour : Various Colours

pH (Value) : -

Decomposition temperature : >200°C

Odor threshold : -

Odor : Odorless

Boiling Point : -

Flash point : -

Flammability : Will not spontaneously ignite

Self-ignition temperature : -

Vapour Pressure (Pascal) : -

Specific gravity (water = 1) : 1.30~1.60(±0.02)

Melting Point : -

n-Octanol-Water Coefficient (Kow) : -

Testing method : ☐ Open cup ☐ Closed cup

Explosive properties : -

Density : -

Solubility in water : Insoluble

Volatilization rate : None

10. Stability and Reactivity

Chemical Stability : This product is stable under normal use conditions for shock, vibration, pressure or Temperature.

Hazardous reactions under special conditions : Burning in case of fire

Conditions to avoid : Keep away from heat, sparks and flame.

Materials to avoid : Direct contact with open flames, self-igniting and explosive materials.

Dangerous products of decomposition : Overheating may cause thermal degradation of PVC compound. Fumes and vapors (including CO, CO₂, and HCl) may be generated during this thermal degradation. Emissions are also possible during normal operating conditions, and may accumulate within an inadequately ventilated facility.

11. Toxicological Information

Exposure pathway : -

Acute Toxicity : None suggested.

Allergic reaction : Not available.

Chronic or long-term toxicity : -

12. Ecological Information

Aquatic Ecotoxicity	: To prevent being eaten by marine life or birds, it is strictly forbidden to discard to the ocean or waters.
Persistence/Degradability	: The product is not biodegradable.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other	: none

13. Disposal Considerations

Recycle (Reprocess)
Do not allow to enter drains, sewers or watercourses.
Disposal through landfilled or controlled incineration or authorised waste dump in accordance with Local, State or National Regulations.
Waste generators must determine whether a discarded chemical is classified as a hazardous waste.

14. Transport Information

UN number	: Not Regulated
Proper Shipping Name	: Polyvinyl Chloride
Transport hazard class(es)	: Not classified as dangerous in the meaning of transport regulations.
Packing group	: Not Applicable
IMDG Marine Pollutant	: No
Special precautions for user	: This product must be carried according to environmental laws governing the transport of non-hazardous substances.

15. Regulatory Information

National regulations, other regulations, limitations and prohibitive regulations
Occupational Safety and Health Act
Traffic Regulation
Waste Disposal Act
Resource Recycling Act

16. Other Information

NA

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