



## REON PVC

# MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Product Name:</b>	REON PVC
<b>Company Identification:</b>	Reliance Industries Limited, Polymer Business, Reliance Corporate Park, Block 8A, (First Floor) Thane Belapur Road, Ghansoli Navi Mumbai, 400701 - India
<b>Telephone:</b>	+91-22-44781022
<b>Fax :</b>	+91-22-44770851
<b>e-mail:</b>	<a href="mailto:polymer_patsupport@ril.com">polymer_patsupport@ril.com</a>
<b>Emergency Phone No.</b>	+91-265-6696000 (10.30 – 18.00 hrs.)
<b>Use of Substance / Preparation:</b>	Industrial use only. Raw material for plastics processing industry.

### 2. HAZARDS IDENTIFICATION

**EC Classification** Not classified as dangerous for supply/use.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 chemical composition:

Polyvinyl Chloride CAS No.: 9002-86-2; 99.7 % (Minimum).

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification
None.				

### 4. FIRST AID MEASURES



- 4.1 Inhalation** Immediately remove the victim from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
- 4.2 Skin Contact** After contact with skin, wash immediately with plenty of soap and water. In case of burns from hot material immediately cool affected skin as long as possible with cold water. Obtain medical attention.
- 4.3 Eye Contact** Powder may scratch eye surface and cause mechanical irritation. Flush eyes

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### 4.4 Ingestion

with water and do not rub. If symptoms persist, obtain medical attention. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. If symptoms develop, obtain medical attention.

### 4.5 Further Medical Treatment

Unlikely to be required but if necessary treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

As appropriate for surrounding fire. Extinguish preferably with foam, water or dry chemical.

### 5.2 Unsuitable Extinguishing Media

CO<sub>2</sub> may be unsuitable due to lack of cooling capacity.

### 5.3 Fire Fighting Protective Equipment

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

### 5.4 Hazardous Decomposition Product(s)

Combustion or thermal decomposition will evolve toxic and irritant vapours. Combustion products may include carbon monoxide, carbon dioxide and hydrochloric acid vapors.

### 5.5 Special Exposure Hazards

Dust explosion may occur if not attended properly. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### 5.6 Other

Can melt and burn in a fire. Molten material tends to flow or drip and will propagate fire.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions

Caution - spillages may be slippery. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Dust clouds are sensitive to ignition by electrostatic discharge.

### 6.2 Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

### 6.3 Methods for cleaning up

Sweep up and shovel into waste drums or plastic bags.

## 7. HANDLING AND STORAGE

### 7.1 HANDLING

Control dust formation. Do not eat, drink or smoke at the work place. Wash face and hands before eating, drinking or smoking. Will accumulate static charges that may cause an electric spark (ignition source). Take precautionary measures against static discharges.

### 7.2 STORAGE

Keep only in the original container. Keep container tightly closed. Keep in a cool, well ventilated place. Keep away from heat and direct sunlight. This product should be kept away from naked flames and other sources of ignition

#### Storage Temperature:

Ambient.



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**Storage Life:** Stable at ambient temperature.

**Specific use:** Industrial use only.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

#### OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Polyvinyl Chloride – inhalable dust	9002-86-2		10			
Polyvinyl Chloride - Respirable dust			4			



#### 8.1 Respirators

No special requirements. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.



#### 8.2 Eye Protection

Safety spectacles/goggles/full face shield.



#### 8.3 Gloves

Wear suitable gloves if prolonged skin contact is likely. When dealing with heated material: Insulating gloves EN 407 (heat).

#### 8.4 Other

Wear suitable protective clothing. Contaminated clothing should be thoroughly cleaned.

#### 8.5 Environmental precautions

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid. Powder
<b>Colour</b>	White. Off-white.
<b>Odour</b>	Odourless.
<b>pH (Value)</b>	Not applicable.
<b>Decomposition Temperature (°C)</b>	Not applicable.
<b>Boiling Point (°C)</b>	Not applicable.
<b>Melting Point (°C)</b>	Not Applicable
<b>Flash Point (°C) [Closed cup]</b>	> 390 (> 734 °F)
<b>Auto Ignition Temperature (°C)</b>	> 450 (>842°F)
<b>Explosive Properties</b>	Not explosive. Unlikely to represent a dust hazard under normal handling



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	conditions. Minimum explosive limit:: 45 mg/m <sup>3</sup> (typically).
<b>Minimum Ignition Energy (mJ)</b>	100 (typically)
<b>Oxidising Properties</b>	Not applicable.
<b>Vapour Pressure (Pascal)</b>	Not applicable.
<b>Specific Gravity</b>	1.30 – 1.50
<b>Solubility (Water)</b>	Insoluble.

### 10. STABILITY AND REACTIVITY

<b>10.1 Chemical Stability</b>	Stable under normal conditions. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>10.2 Conditions to avoid</b>	Heat and direct sunlight.
<b>10.3 Materials to avoid</b>	Direct contact with open flames, self igniting and explosive materials.
<b>10.4 Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide, Hydrocarbons and Acrid smoke.

### 11. TOXICOLOGICAL INFORMATION

Low toxicity under normal conditions of handling and use.

<b>11.1 Ingestion</b>	Low oral toxicity. Polyvinyl chloride: LD50 (rat) : >5000 mg/kg
<b>11.2 Inhalation</b>	Low acute toxicity. Dusts and vapours or fumes evolved during thermal processing may cause irritation to the respiratory system.
<b>11.3 Skin Contact</b>	No evidence of irritant effects from normal handling and use.
<b>11.4 Eye Contact</b>	Dust may have irritant effect on eyes. Permanent damage is unlikely.
<b>11.5 Long Term Exposure</b>	Chronic effects are unlikely.

### 12. ECOLOGICAL INFORMATION

<b>12.1 Environmental Fate and Distribution</b>	Material is expected to remain in the soil. No bio-concentration is expected because of higher molecular weight of the material.
<b>12.2 Persistence and Degradation</b>	The product is non-biodegradable.
<b>12.3 Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.4 Effect on Effluent Treatment</b>	Unlikely to affect biological treatment processes.

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Regulatory information</b>	Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
<b>13.2 Recommended:</b>	Normal disposal is via incineration operated by an accredited disposal contractor. Refer to manufacturer/supplier for information on recovery/recycling.

### 14. TRANSPORT INFORMATION

#### International Transport Regulations



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Not classified as dangerous for transport.

<b>UN No.:</b>	Not applicable.
<b>Road/Rail (ADR/RID):</b>	Not applicable.
<b>Class/Packing Group:</b>	Not applicable.
<b>IMDG Class</b>	Not applicable.
<b>ICAO/IATA Class</b>	Not applicable.

### 15. REGULATORY INFORMATION

<b>EC Classification</b>	Not classified as dangerous for supply/use.
<b>Hazard Symbol</b>	Not applicable.
<b>Risk Phrases</b>	Not applicable.
<b>Safety Phrases</b>	Not applicable.

### INTERNATIONAL INVENTORIES

<b>EINECS (Europe)</b>	EINECS: Polymer. Monomers included.
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### 16. OTHER INFORMATION

This Material Safety Data Sheet was prepared in accordance with Directive 1907/2006/EC, 67/548/EEC, 1999/45/EC. Reon meets the requirements stipulated in IS 10151 on, 'Specification for Polyvinyl chloride and its copolymers for safe use in contact with foodstuff, pharmaceuticals and drinking water'. Additives incorporated in Reon grades conform to the positive list of constituents as prescribed in IS 10148.

This Material Safety Data Sheet and the health, safety and environmental information it contains are intended to provide a summary of our knowledge and guidance regarding use of the designated Product. Its contents are offered in good faith as accurate and complete as of the date specified below, but without guarantee. The data herein applies only to the Product sold by entities of the Reliance group and not to products sold by others. It relates only to the Product and does not relate to its use in combination with any other product or material or in any process.

Local laws and regulations and conditions of use and suitability of the product for particular uses are beyond the control of Reliance; all risks of use, storage, handling, transportation and disposal of the Product are therefore assumed by the user and Reliance expressly disclaims all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the Product. Reliance shall not be responsible for any damage or injury resulting from abnormal use of the Product, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the Product.

Appropriate warnings and safe handling procedures should be provided to all handlers and users. In the case of a user in the European Union, as per Article 34 of REACH Regulation (EC) No. 1907/2006, user shall communicate to Reliance any new information on hazardous properties of the Product and/or new information relevant to risk management measures for the identified uses.

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