



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

**Product Name:** Westco TY 800 PVC Homopolymer

Other means of identification:

**Product Description:** Polyvinyl Chloride Homopolymer Resin  
**Synonyms:** Polyvinyl Chloride Resins, PVC Resin, Chloro-polymer; Chloroethylene Homopolymer; Chloroethylene Polymer; Vinyl Chloride Polymer; Poly(chloroethylene)

Recommended use of the chemical and restrictions on use:

**Product Use/Restriction:** Used in the manufacture of rigid and flexible pipes, foam, packaging, injection molding, calendared sheeting, film, flooring products, and cable insulations.

Chemical distributor, or other responsible party Name, address, and telephone number:

**Distributor Name:** Western Reserve Chemical Corporation  
**Address:** 4837 Darrow Road  
Stow, OH 44224  
USA  
**General Phone Number:** 330 650 2244  
**General Fax Number:** 330 650 2255

Emergency phone number:

**Emergency Phone Number:** Chemtrec 1 800 424 9300 USA  
**Website:** www.wrchem.com

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

**GHS Pictograms:**



**Signal Word:** WARNING!

**GHS Class:** Eye Irritant, Category 2B. Skin Irritant, Category 2. Specific Target Organ Toxicity, Single Exposure, Category 3.

**Hazard Statements:** Causes eye irritation. Causes skin irritation. May cause respiratory irritation.

**Precautionary Statements:** IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use personal protective equipment as required. Wash hands thoroughly after handling. Avoid release to the environment.

Hazards not otherwise classified that have been identified during the classification process:

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:** May cause respiratory, skin, and eye irritation.

**Chronic Health Effects:** Chronic exposure to the respirable fraction (particles less than 10 microns in size) of PVC particles may produce pulmonary fibrosis. Particle sizes associated with suspension polymerization are typically greater than 10 microns in size. In general, the suspension PVC homopolymer resins have an average particle size of 145 microns approximately. Dust may form an explosive atmosphere when dispersed in air.

**Signs/Symptoms:** Respiratory reaction may include coughing, pain, inflammation, bronchospasm. Skin or eyes affectation will show redness.

**Notes :** Container Labeling: Containers of PVC resin shall be labeled with the following statement as required by 29 CFR 1910.1017: POLYVINYL CHLORIDE - CONTAINS VINYL CHLORIDE. VINYL CHLORIDE IS A CANCERSUSPECT AGENT.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

| Chemical Name | CAS# | Ingredient Percent | EC Num. |
|---------------|------|--------------------|---------|
|---------------|------|--------------------|---------|

## SECTION 4 : FIRST AID MEASURES

### Description of necessary measures:

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| <b>Eye Contact:</b>  | Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If irritation occurs, get medical attention |
| <b>Skin Contact:</b> | Wash skin with soap and water. If irritation occurs, get medical attention.  |
| <b>Inhalation:</b>   | Remove patient from exposure, keep warm and at rest. If irritation occurs, get medical attention.  |
| <b>Ingestion:</b>    | Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.  |

### Indication of immediate medical attention and special treatment needed:

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| <b>Note to Physicians:</b> | Treat symptomatically. |
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## SECTION 5 : FIRE FIGHTING MEASURES

### Suitable and unsuitable extinguishing media:

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| <b>Suitable Extinguishing Media:</b> | Use water spray, water fog, or dry chemical extinguishing media. Water spray is recommended to cool or protect exposed materials or structures. |
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### Specific hazards arising from the chemical:

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| <b>Hazardous Combustion Byproducts:</b> | Combustion or thermal decomposition will evolve toxic and irritant vapours to the respiratory tract, eyes and skin (hydrogen chloride, oxides of carbon, small amounts of benzene and aromatic and aliphatic hydrocarbons and phosgene).<br>The more toxic by-product is carbon monoxide, which is an asphyxiating gas.<br>Hydrogen chloride is an irritant and its toxicity may not involve a fatal risk at the levels registered in fires.<br>When vinyl is burned, hydrogen chloride will have a detectable, pungent odor, which will alert people on the fire occurrence.<br>Depending on the severity of exposure, physiological response will be coughing, pain and inflammation.<br>Individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchospasm if exposure is prolonged. |
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### Special protective equipment and precautions for fire-fighters:

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| <b>Protective Equipment:</b>       | Wear NIOSH approved positive-pressure self-contained breathing apparatus (SCBA) and full protective gear.   |
| <b>Fire Fighting Instructions:</b> | A self-contained breathing apparatus and full protective clothing should be worn in fire conditions. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Wear NIOSH approved positive-pressure self-contained breathing apparatus (SCBA) operated in pressure demand mode. Cool extinguished material to prevent decomposition. |

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

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| <b>Personal Precautions:</b> | Do not breathe the powder. Eliminate all sources of ignition. Ensure suitable personal protection during removal of spillages. Protect against dust. |
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### Environmental precautions:

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| <b>Environmental Precautions:</b> | Avoid release to the environment. Contain spillages. Keep product and flush water out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies |
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### Methods and materials for containment and cleaning up:

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| <b>Methods for containment:</b> | Use vacuum equipment for collecting spilt materials, where practicable. Collect and transfer spilt material to a lidded container for reprocessing or disposal. |
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## SECTION 7 : HANDLING and STORAGE

### Precautions for safe handling:

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| <b>Handling:</b>                    | Use methods to minimize generation of dust. PVC dust is capable of propagating a secondary dust explosion. This potential can be reduced by good housekeeping, prevention of dust from process equipment, preventing accumulation of dust on overhead, horizontal surfaces and eliminating potential ignition sources. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. PVC resin processing may result in the release of low levels of vinyl chloride. Use only in well-ventilated areas. |
| <b>Hygiene Practices:</b>           | Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. Follow good industrial hygiene practices when handling this material. When using, do not eat, drink or smoke.   |
| <b>Special Handling Procedures:</b> | No adverse health effects are expected from processing vinyl resin when potential exposures are   |

minimized by good industrial hygiene practice and adequate ventilation. Nevertheless, at processing temperatures, the sum total of all ingredients in a vinyl-based compound (e.g., vinyl resin, stabilizer, lubricant, modifier, etc.) may emit fumes and vapors that are irritating to the respiratory tract and eyes of some sensitive people. This irritating effect depends upon processing techniques and temperatures, volume processed and, most importantly, the effectiveness of exhaust ventilation provided to the process area.

Conditions for safe storage, including any incompatibilities:

**Storage:** Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Store in a cool, and dry area. Store in a cool and dry well-ventilated area. Avoid heat, flames, sparks and other sources of ignition. Ground equipment need. Store flammable liquids away from vinyl resin.

Specific end use(s):

**Work Practices:** Safety showers and eye wash stations should be available. Use this product with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

**Engineering Controls:** Provide adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust ventilation is preferred because it is capable of controlling contaminant emissions at the source and preventing dispersion into the general work area. For additional information on ventilation, refer to ACGIH text, Industrial Ventilation, a Manual of Recommended Practices.

Individual protection measures:

**Eye/Face Protection:** Wear protective eyewear (goggles, face shield, or safety glasses).

**Skin Protection Description:** Minimize contact with product. Wear gloves and/or suitable long-sleeved clothing. All PPE should be selected and worn in accordance with 29 CFR 1910.132 and 1910.138.

**Hand Protection Description:** Wear suitable protective gloves.

**Respiratory Protection:** A suitable dust mask or dust respirator with filter type P may be appropriate. Check with protective equipment manufacturer's data.

**PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State:** Solid

**Physical State Appearance:** Powder.

**Color:** White

**Odor:** No Data

**Boiling Point:** Not Applicable

**Melting Point:** No data available

**Density:** 1.4 g/cm<sup>3</sup>

**Specific Gravity:** 1.4 approximately, at 20°C (once compounded and fused)

**Solubility:** Insoluble

**Vapor Density:** Not Applicable

**Vapor Pressure:** Not Applicable

**Molecular Formula:** (C<sub>2</sub>H<sub>3</sub>Cl)<sub>n</sub>

**Viscosity:** 0.66 - 1.122 (ASTM D1243)

**Flash Point:** 736°F / 391°C

**Auto Ignition Temperature:** Auto ignition point 849°F/454°C (ASTM D1929) but with no self-sustained flame

## SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of hazardous reactions:

**Hazardous Polymerization:** PVC is a stable polymer and will not further polymerize. This material will not depolymerize to form VCM.

Conditions To Avoid:

**Conditions to Avoid:** Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials:

**Incompatible Materials:** PVC is resistant to acids and alkalis up to 60°C, with the exception of sulphuric acid (>90%) and nitric

acid (>50%). However, above this temperature the polymer is attacked by stronger acids. Avoid contact with strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions these materials are mutually destructive and involve rapid degradation. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other. Prevent cross contamination of feedstock.

Hazardous Decomposition Products:

**Special Decomposition Products:** Not expected to occur. Thermal decomposition will evolve toxic and irritant vapours Under flame exposure: Hydrochloric acid, carbon oxides, small amounts of benzene and aromatic and aliphatic hydrocarbons and Phosgene.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

TOXICOLOGICAL INFORMATION:

**Acute Toxicity:** Low acute toxicity. This material is practically non-toxic by the oral route. This material is unlikely to cause chemical skin irritation. Mechanical irritation may occur. Eye irritation may occur from the mechanical action of lodged particles.

**Chronic Effects:** The available evidence from experimental animals and from humans indicates that pure PVC is not metabolized in mammals. Several studies have described pulmonary fibrosis from inhalation of high levels of PVC particles. PVC resin particles generated by suspension polymerization are generally large enough in diameter, that the majority are not considered respirable.

**Carcinogenicity:** This material is not classified as a carcinogen by NTP, IARC or OSHA.

**SECTION 12 : ECOLOGICAL INFORMATION**

Ecotoxicity:

**Ecotoxicity:** Not harmful to aquatic organisms.

Persistence and degradability:

**Biodegradation:** Solid with low volatility. The product is essentially insoluble in water. The product shows no evidence for biodegradability in water. The product shows no evidence for biodegradability in soil

Bioaccumulative potential:

**Bioaccumulation:** The product has no potential for bioaccumulation.

Mobility in soil:

**Mobility In Environmental Media:** The product has no mobility in soil

Other adverse effects:

**Effect of Material On Aquatic Life:** Not harmful to aquatic organisms.

**Notes :** Container Labeling: Containers of PVC resin shall be labeled with the following statement as required by 29 CFR 1910.1017: POLYVINYL CHLORIDE – CONTAINS VINYL CHLORIDE. VINYL CHLORIDE IS A CANCERSUSPECT AGENT.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Description of waste:

**Waste Disposal:** Reuse, reprocess or recycle if possible. Dispose in accordance with all applicable regulations. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D043. If incinerated, be aware that hydrogen chloride is generated.. If incinerated, be aware that hydrogen chloride is generated.

**SECTION 14 : TRANSPORT INFORMATION**

**DOT Shipping Name:** Non regulated.

**DOT Pictograms:**



**IATA Shipping Name:** Non regulated.

**IATA Pictograms:**



**IMDG Shipping Name :** Non regulated.

**SECTION 15 : REGULATORY INFORMATION**

Safety, health and environmental regulations specific for the product:

**TSCA Inventory Status:** The ingredients of this product are listed on TSCA inventory (40 CFR 710).

**SARA:** Non regulated.

Section 302 EHS: None.

Section 304 RQ: Not regulated

CERCLA Section 302: Not listed

Section 311/312 Hazard Categories: None

Clean Air Act: Not listed

Clean Water Act RQ: Not listed

OSHA Process Safety: Not regulated

RCRA 261.33 Code: This product does not meet the EPA criteria for ignitability, corrosivity or reactivity. The toxicity characteristic has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

California PROP 65: Not Listed. Warning – this product contains a chemical known to the State of California to cause cancer (Vinyl Chloride).

New Jersey: Not Listed. NJ Worker & Community RTK Act (NJSA 34:5A1 et seq.) (Vinyl Chloride)

Pennsylvania: Not Listed. PA Worker & Community RTK Act (PA. Act 1984-1159) (Vinyl Chloride)

Risk Phrases: R36/37/38 - Irritating to eyes, respiratory system and skin.

Safety Phrase: S24/25 - Avoid contact with skin and eyes. S36/37 - Wear suitable protective clothing and gloves. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.



## SECTION 16 : ADDITIONAL INFORMATION

### HMIS Ratings:

HMIS Health Hazard: 1

HMIS Fire Hazard: 1

HMIS Reactivity: 0

HMIS Personal Protection: J

|                     |   |
|---------------------|---|
| Health Hazard       | 1 |
| Fire Hazard         | 1 |
| Reactivity          | 0 |
| Personal Protection | J |

SDS Creation Date: June 03, 2016

SDS Revision Date: June 03, 2016

### Notes :

Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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