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Bulletin G-62 RES

Material Safety Data

Geon® Vinyl Resin

26263001

BFG50396

ABOUT THIS BULLETIN

The data in this bulletin apply to all Geon® vinyl resins. These resins are white, thermoplastic, granular powders manufactured by suspension, dispersion or mass polymerization processes. They are all 100% polyvinyl chloride homopolymer or copolymer. Although properties may vary in terms of molecular weight, particle size, porosity and other characteristics, safety and handling precautions are similar for each resin.

Vinyl resin is normally used in combination with functional additives such as stabilizer, lubricant, pigment, etc. When combined with these other ingredients, the resulting product is commonly called a vinyl "compound." This bulletin does not apply to compound. For information applicable to compound, please read BFGoodrich Bulletin G-62 CMPD, "Material Safety Data, Geon® Vinyl Compound."

The data in this bulletin does not include any information on the suitability of vinyl for any particular application nor does it discuss any precautions that may apply to specific end products. Moreover, this bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. We must rely on you to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

SPECIAL NOTE: Vinyl chloride and polyvinyl chloride (PVC) are not the same material. Vinyl chloride is a flammable gas that is strictly regulated by DOT, EPA and OSHA. Through a chemical reaction, this gas -- known as a monomer -- is converted to a non-hazardous white granular powder called polyvinyl chloride resin, PVC, or simply, vinyl. Vinyl resin is not a cancer suspect agent. Moreover, the reaction is not reversible. That is, thermal processing or decomposition will not cause polyvinyl chloride to revert back to vinyl chloride monomer. (See Section II and Appendix 1.)

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SECTION I

<u>Manufacturer's Name</u>	<u>Telephone Number</u>	<u>Transportation Emergency Telephone</u>
The BFGoodrich Company Chemical Group	(216) 447-6000	CHEMTREC: (800) 424-9300
<u>Address</u>	<u>Chemical Family</u>	<u>Trademark</u>
6100 Oak Tree Blvd. Cleveland, Ohio 44131	Ethene, chloro-, homopolymer	Geon® Vinyl
<u>Chemical Name/Synonyms</u>	<u>CAS Registry Number</u>	<u>Formula</u>
Poly(vinyl chloride), PVC, vinyl.	Homopolymer resin: 9002-86-2	Homopolymer resin: (CH ₂ CHCl) _n

- Virtually all Geon® vinyl resins are polyvinyl chloride homopolymer. We do manufacture a limited number of copolymer dispersion resins. These are polymerized with another monomer, e.g., carboxylic acid, vinyl acetate or a vinyl ester.
- Specific grades of Geon® vinyl resin comply with applicable provisions of the U.S. Food and Drug Administration regulations governing food contact (21CFR). Please consult product literature for details.
- Geon® vinyl resins are included in the Toxic Substances Control Act, Inventory of Chemical Substances, developed by the U.S. Environmental Protection Agency.

SECTION II - HAZARDOUS INGREDIENTS

Vinyl resin contains a very small amount of residual vinyl chloride monomer (CAS Registry Number: 75-01-4). Extensive product and process improvements have resulted in the reduction of residual monomer to average levels less than 1-5 parts per million (ppm) in most prime grades of Geon® vinyl resins. Today, there is virtually no employee exposure to vinyl chloride monomer above the OSHA action level of 0.5 ppm when handling or processing Geon® vinyl resin. Please read Appendix 1 for workplace exposure limits.

Please read Appendix 2 - Hazardous Substances.

SECTION III - PHYSICAL DATA (Typical data, not specifications)

<u>Inherent Viscosity</u>	<u>Specific Gravity</u>
0.50 - 1.16	1.40
<u>Particle Size, microns</u>	<u>Solubility in Water</u>
Dispersion resin: 0.2-15	Slight
Blending resin: 25-130	
Suspension resin: 70-150	

Appearance and odor

White, free-flowing powder. Practically odorless or bland odor.

Other

Characteristics such as vapor pressure, vapor density, boiling point and evaporation rate do not apply to solid materials such as vinyl resin.

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