

BFGoodrich

G-62
Supplement

Issue Date:
January, 1980

MATERIAL SAFETY DATA SHEET

Geon® Vinyl Resins, Compounds

1. IDENTIFICATION: Name of Material: Geon Vinyl Resins, Compounds

2. HAZARD: Health: No known health hazard.

3. PHYSICAL DATA: Boiling Point: 160°C (320°F)

4. CHEMICAL DATA: Chemical Formula: C₂H₄

5. TOXICITY: LD50: 2.5 g/kg (0.07 lb/kg)

6. FLAMMABILITY: Flash Point: 160°C (320°F)

7. REACTIVITY: No known reactivity.

8. SPECIAL PRECAUTIONS: No special precautions.

9. OTHER DATA: No other data.

10. REFERENCES: No references.

11. COMMENTS: No comments.

12. PREPARED BY: BFGoodrich

13. DATE: January, 1980

14. REVIEWED BY: BFGoodrich

15. APPROVED BY: BFGoodrich

16. DISTRIBUTION: BFGoodrich

17. STORAGE: No special storage.

18. DISPOSAL: No special disposal.

19. TRANSPORT: No special transport.

20. LEGAL: No legal issues.

21. OTHER: No other information.

22. COMMENTS: No comments.

23. PREPARED BY: BFGoodrich

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The data in this bulletin is applicable to all Geon® vinyl resins — general purpose type, Super EP type, dispersion resins, blending resins, powder coating resins —

and to all grades of rigid, flexible and Geon® cellular vinyl compounds. This bulletin is not applicable to Geon® latexes nor to Geon® CPVC materials.

SECTION I

Manufacturer's Name The BFGoodrich Company, Chemical Group
Address 6100 Oak Tree Boulevard, Cleveland, OH 44131
Telephone Number (216) 524-0200
Trademark Geon® Vinyls
Chemical Name Poly (vinyl chloride), PVC
Formula $(CH_2CHCl)_n$
Chemical Family Vinyl Chloride Homopolymer (With the following exceptions):
Geon® 135, 130x24: Copolymer of vinyl chloride/vinyl acetate
Geon® 130x17: Carboxy-modified vinyl chloride polymer

SECTION II

HAZARDOUS INGREDIENTS

PVC Resin

i) Residual vinyl chloride monomer.

PVC Compound

- 1) Residual vinyl chloride monomer.
- 2) Heavy metal stabilizers.
- 3) Monomeric, polymeric or mixed ester plasticizer in flexible compound.
- 4) Pigments based on lead, chromium, mercuriums, iron oxides or other organics or inorganics.

For additional information read BFGoodrich Bulletin G-62, Second Edition

Section V and Table 1

Section II

Section II

Section II and Table III

Section V

NOTE: Vinyl chloride (VCM) is an OSHA regulated material (REFER TO OSHA 1910.1017 FOR COMPLETE DETAILS). Current OSHA regulations require that no employee may be exposed to VCM concentrations greater than 1.0 ppm averaged over any eight hour period or 5.0 ppm averaged over any period not exceeding 15 minutes. All facilities where PVC is processed or fabricated (with heat sufficient to cause mass melting) shall be monitored to determine concentration of ambient VCM in the workplace atmosphere.

SECTION III

PHYSICAL DATA

Specific Gravity ($H_2O = 1.0$).

Resin: 1.40.

Compound: See Product Data Sheet.

Solubility in Water — Slight

Particle Size

Resin: Refer to Bulletin G-62.

Compound: Cubes measuring approximately 3/16-inch per side; or powder of variable particle size due to compounding ingredients.

Table II

Appearance and Odor

Resin: White powder, practically odorless or bland odor.

Compound: Pigmented or unpigmented cubical granules or powder, slight odor.

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition (ASTM D-1929) 735°F.

Self-Ignition (ASTM D-1929) 850°F.

Section IV

Extinguishing Media

Water. ABC dry powder. Protein type air foams. Carbon dioxide may be ineffective due to a lack of cooling capacity which may result in reignition.

Section IV

Special Fire Fighting Procedures

Wear self-contained breathing apparatus to prevent inhalation of combustion gases.

Section IV

Unusual Fire and Explosion Hazard

PVC powder compound, especially plasticized powder compounds, may have dust explosion potential due to compounding ingredients. Control or eliminate likely ignition sources. Prevent accumulation of potentially explosive dust concentrations. Ventilate well.

Section IV

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SECTION V

HEALTH AND HAZARD DATA

Threshold Limit Value — None established.

Effects of Overexposure

Processing vapors may produce acute health effects in some individuals. The effects relate primarily to eye, nose and throat irritation. Individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchospasm if exposure is prolonged.

Emergency and First Aid Procedures

If irritation persists, remove affected individual from the area. Call a physician. Provide protection before re-entry. If overexposure occurs, leave the area.

SECTION VI

REACTIVITY DATA

Stability — Stable.

Incompatibility (Materials to avoid)

In processing equipment, avoid contact of PVC resin or compound with acetal or acetal copolymers or with amine containing materials. At processing conditions these materials are mutually destructive and involve rapid decomposition.

Hazardous Decomposition Products

CO, CO₂, HCl, and (in small amounts) aromatic and aliphatic hydrocarbons. Geon[®] 135 and 130x24 will also contribute minor amounts of acetic acid as gas and smoke.

Hazardous Polymerization — Will not occur.

Section VI

Section IV

SECTION VII

SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled

PVC material may be swept, shoveled, or vacuumed into containers for reuse or disposal.

Waste Disposal Method

Sanitary landfill or incineration in accordance with Federal, state or local regulations.

Section VII

SECTION VIII

SPECIAL PROTECTION INFORMATION

Respiratory Protection — Dust

If conditions exist where dust is possible, wear NIOSH approved respiratory protection device.

Ventilation

Exhaust ventilation designed to pull vapors away from workers should be installed at all operations capable of creating dust, fumes or vapors.

Other Protection

- 1) Rubber gloves should be worn when cleaning condensate from exhaust hoods and other surfaces to prevent skin contact.
- 2) Safety glasses.

Section VIII

Section IV, Section VIII

Section IX

SECTION IX

SPECIAL PRECAUTIONS

- 1) Open, handle and use Geon[®] vinyls under well-ventilated conditions.
- 2) Avoid breathing fumes.
- 3) Do not store or consume food in processing areas. Do not use processing equipment to heat food. Wash hands prior to eating. This will help prevent ingestion of unknown contaminants.
- 4) Cool regrind before placing in containers to prevent decomposition.
- 5) Prevent accumulations of PVC resins or compounds in walkways and other areas where people walk to prevent slippery footing.

Section IV, V

SECTION X

TRANSPORTATION INFORMATION

For transportation purposes, Geon[®] vinyl resins and compounds are not defined or designated as a hazardous material by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations, 1977 edition.

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USER'S RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user of Geon[®] vinyls has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if or where precautions, in addition to those described herein, are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. BFGoodrich must rely on the user of Geon[®] vinyls to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation.

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