

Faber 9/5/74

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GEON "SHORT FORM" MSDS

Attached for your comment and approval is the "short form" to be included as part of our Bulletin G-62.

Please give me your comments on this by September 7, if possible.
Thank you.

J. D.
James D. Tanzilli

JDT:dmm

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MATERIAL SAFETY DATA SHEET
GEON^R Vinyl Resins and Compounds

Issue Date: _____

(Essentially similiar to
U.S. Departament of
Labor Form OSHA 20)

SECTION I

Manufacturer's Name

The BFGoodrich Company, Chemical Group

Telephone Number

AC (216) 524-0200

Address

6100 Oak Tree Boulevard
Cleveland, Ohio 44131

Trademark

Geon^R Vinyls

Chemical Name

Poly (vinyl chloride), PVC

Formula

(CH₂ CHCL)_n

Chemical Family

Vinyl Chloride Homopolymer
(With the following exceptions):

Geon^R 135, 130x24: Copolymer of vinyl chloride/vinyl acetate
Geon^R 130x17: Carboxy-modified vinyl chloride polymer

SECTION II - HAZARDOUS INGREDIENTS

PVC Resin

- 1) Residual vinyl
chloride monomer
(See Note)
- (Refer to Table
1, Bulletin G-62
Second Edition
for RVCN level in
major types of
Geon^R resin and
compound)

PVC Compound

- 1) Residual vinyl
chloride monomer
(See Note).
- 2) Heavy metal stabilizers.
Less than 5%. Types
include tin, lead, zinc,
cadmium, barium, lead
carbonate, basic lead
sulfate.
- 3) Monomeric, polymeric or
mixed ester plasticizer
generally between 20% -
50% in flexible compound.

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

Section V and Table
1

Section II

Section II

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4) Pigments containing lead, chromium, mercadmiums, iron oxides or other organics or inorganics.

Section II and
Table III

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 V

SECTION III - PHYSICAL DATA

Specific Gravity (H₂O = 1.0)

Resin: 1.40

Compound: See Product Data Sheet

Solubility in Water

Slight

Particle Size

Resin: See Table II, Bulletin G-62 or Product Data Sheet

Compound: Cubes measuring approximately 3/16-inch per side; or powder.

Appearance and Odor

Resin: White powder, practically odorless or bland
~~color 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

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Extinguishing Media

Water. ABC dry powder. Protein type air foams. CAUTION: Carbon dioxide may be ineffective due to a lack of cooling capacity

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 resin and cube compounds do not represent a known explosion hazard.

Section IV

PVC powder compound, especially flexible powder compounds, may have increased dust explosion potential. Control or eliminate likely ignition sources. Prevent accumulation of potentially explosive dust concentrations. Ventilate well.

due to compounding ingredients

SECTION V - HEALTH 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 over-exposure occurs, leave the area.

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Isn't this true for all Class A fire? If so I think the use of this word is too strong.

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.

Hazardous Polymerization

Will not occur

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. HCl is generated when PVC is burned.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection - Dust

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

Section VI

Section V

Section VIII

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What about the
copolymers? Won't
acetate produce
oxides of nitrogen?

~~Excessive is sub-
jective - If an
adjective is used
it should be
objective.~~

Special Respiratory Protection

Avoid inhalation of fumes from any operation involving heat sufficient to result in polymer breakdown. Maintain efficient ventilation or wear NIOSH approved air-supplied respirator to prevent exposure to fumes potentially irritating to the respiratory tract or eyes.

Section VIII

Ventilation

Exhaust ventilation designed to pull vapors away from workers should be installed at all operations capable of creating dust, fumes or vapors. Such operations may include mixing operations, the hot end and feed area of processing equipment, cut-off equipment, regrind equipment, thermoforming equipment, heat sealing equipment, and soldering and curing operations.

Section IV,
Section VIII

Other Protection

- 1) Rubber gloves should be worn when cleaning condensate from exhaust hoods and other surfaces to prevent skin contact resulting *which may result* in possible irritation.
- 2) Safety glasses are recommended ~~for all industrial workplaces.~~

Section VIII

IX SECTION ~~IX~~ - SPECIAL PRECAUTIONS

- 1) Open, handle and use Geon^R vinyls under well ventilated conditions.
- 2) Avoid breathing fumes generated during routine processing or abnormal situations (such as equipment malfunction or plug-up) or during typical "breakdown" and "clean-up" of equipment. Inhalation of fumes may result in irritation of the respiratory tract, eyes and skin resulting in coughing, pain and inflammation.
- 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.~~

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How about smoking in processing areas?
Remember synergism of asbestos & smoking.

- to
- 4) Cool regrind before placing in containers for reuse. This will prevent decomposition, which could result in fumes or unusable material.
 - 5) Prevent accumulations of PVC resins or compounds in walkways and other areas where people walk to prevent slippery footing.

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