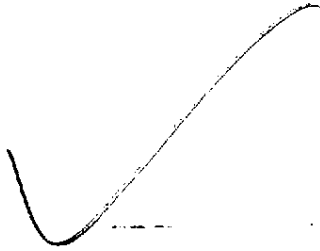


GA Jones



Issue Date:

Bulletin G-62 CMPD

Material Safety Data

Geon® Vinyl Compound

26271001

BFG50450

- 2 L's ?
- Heavy metal stabilizers generally in amounts less than 5%. These may include organometallics such as tin, lead, cadmium, barium and zinc and metallic salts such as basic lead carbonate and basic lead sulfate.
 - Polymeric, monomeric or mixed ester plasticizer in amounts generally between 20%-50% in plasticized compound. These materials are volatile when heated, and will contribute to the sum total of the vapors released during processing.
 - Commonly available pigments based on lead, iron oxide, carbon black, chromium, ultramarines, titanium dioxide, mercurials, phthalocyanines, molybdates, quinacridones and other organic or inorganic materials.

Please read Appendix 2 for more information about additives used in vinyl compound. Please also read Table 1.

Please note: In granular compound, functional additives are bound-up in our manufacturing process and are not expected to create any hazard in handling or processing. With powder compound, because of possible dust, respiratory protection may be required. (Please read Section VIII, Respiratory Protection.)

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

Solubility in Water
Slight

Specific Gravity
See product data sheet.

Particle Size

Cubes measuring approximately 3/16-inch per side; or powder. Particle size of powder compound varies due to compounding ingredients.

Appearance and odor

Pigmented or unpigmented cubical granules, or powder. Practically odorless or bland odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Ignition Characteristics (ASTM D-1929)

Rigid vinyl (no plasticizer) compound has a flash-ignition temperature of about 391°C (735°F) and a self-ignition temperature of about 454°C (850°F). When plasticizer is added, ignition temperatures decrease. At a 30% plasticizer content, the flash-ignition temperature will be about 321°C (610°F) and the self-ignition temperature will be about 435°C (815°F). Most vinyl compound (i.e., rigid compound and compound with less than about 35% plasticizer) by itself will not support combustion. Vinyl compound can be forced to burn by continuous application of intense heat. Like all combustible materials, protect from open flame and maintain proper clearance when using portable heat devices, etc. Safely store flammable liquids away from vinyl resins.

Compound.

26271004

BFG50453

Because of the wide variety of possible ingredient combinations, operations using plasticized or unplasticized powder compounds should be evaluated as the individual need exists.

For plasticized powder compound, the NFPA reports the following for a PVC (67%)/DOP (33%) mixture:*

Explosibility index	2.9 (Strong)
Ignition sensitivity	3.6 (Strong)
Explosion severity	0.8 (Moderate)
Ignition temp., dust cloud	320°C (608°F)

*NFPA 654-1975, "Prevention of Dust Explosions in the Plastics Industry."

For powder compound (plasticized powder compound in particular), implement precautions to control or eliminate likely sources of ignition, such as static build-up. Maintain good housekeeping, notably, ventilation, to prevent accumulation of potentially explosive dust concentrations. Properly maintain and operate dust control devices.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value
None established.

Effects of Overexposure

• Inhalation of decomposition or combustion products, especially hydrogen chloride, will cause irritation of the respiratory tract, eyes and skin. Depending on the severity of exposure, physiological response to the inhalation of hydrogen chloride will be coughing, pain, inflammation, edema, and desquamation in the upper respiratory tract. Individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchospasm if exposure is prolonged.

• At normal processing temperatures, vinyl compound may emit vapors that are irritating to the respiratory tract, eyes or skin of some sensitive people. This depends upon the method of processing (higher temperatures), volume processed and most importantly, the effectiveness of exhaust ventilation provided to the process.

Emergency and First Aid Procedure

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

Toxicology Overview

Geon® vinyl resins have been evaluated by studies involving the intracutaneous (skin) and intramuscular injection in rabbits, through studies involving dietary administration (i.e., injection) to rats for nearly the lifetime of the animals, and by numerous human patch tests using panels of 50 or more people. No significant reactions, skin irritation, sensitization, or other deleterious effects have been observed in these studies. These studies have shown that PVC resin is relatively inert.

Reverse these two & add first paragraph which says something like "No health hazz. from compounds at ambient temp. see APP. I" Then paragraph at process temp. conditions Then paragraph at decomp./combustion temp.

Read the way stated here, it looks like I'd die if I stuck my head over a barrel of compound

From exposure to products of combustion,

BFG50451

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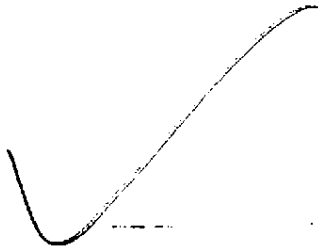
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