

Georgia Gulf

Corporation and Affiliates

MATERIAL SAFETY DATA SHEET

Category 3

Date July 26, 2000

1. PRODUCT IDENTIFICATION

MANUFACTURER Georgia Gulf Corporation- Compound Division, Flexible Group

ADDRESS 210 Industrial Dr N, Madison, MS 39110

TRADE NAME Polyvinyl Chloride (PVC) Compound (Lead Stabilized)

SYNONYMS Vinyl Polymers, chloroethylene homopolymer compound

CAS NUMBER(S) Mixture – available upon request

TELEPHONE NO.: (800) 822-7529

CHEMTREC (800) 424-9300

2. COMPONENTS AND HAZARD CLASSIFICATION

Compounded PVC is an inert material in its normal usage. All the components listed below are encapsulated in the PVC matrix. See Section 5 for hazard information. Typical compositions are listed below.

Polyvinyl Chloride Polymer	45 – 80 %	
Inert Fillers	0 – 40 %	CAC ₀₃ , talc, carbon black, TiO ₂ , clay
Heat Stabilizer	3 – 10 %	Organometallic compounds of cadmium, barium, calcium-zinc or lead
Plasticizer	0 – 60 %	High molecular weight esters
Colorant	0 – 5 %	Organic and inorganic colorants (can contain lead, chromium, and/or cadmium)
Flame Retardant	0 – 20 %	Antimony Trioxide, Aluminum Trihydrate

- PVC Compound contains less than or equal to 1.0 ppm residual vinyl chloride monomer. Vinyl chloride is regulated as a carcinogen according to OSHA and listed by NTP and IARC as a carcinogen.
- The product, in its purchased form, is not subject to SARA 302 or 311/312 reporting.
- May contain less than or equal to 1% arsenic compounds, 5% antimony compounds, 2% barium compounds, 2% cadmium compounds, 5% zinc compounds, 5% lead compounds and 2% chromium compounds, which are chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.
- This product may contain chemical(s) known to the state of California to cause cancer (California Proposition 65).

3. PHYSICAL DATABOILING POINT (F) Solid SPECIFIC GRAVITY(H₂O = 1) 1.15 – 1.7

VAPOR PRESSURE (mm Hg) Solid MELTING POINT Varies

SOLUBILITY IN WATER Solid VAPOR DENSITY Solid

APPEARANCE Pellets of varying size, hardness, and color

4. FIRE AND EXPLOSION DATAFLASH POINT Not Applicable AUTOIGNITION Not Applicable
(TEST METHOD) TEMPERATUREEXTINGUISHING MEDIA Water Spray, CO₂, Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES Cool exposed equipment with water spray. Use self-contained breathing apparatus if fighting fire in confined spaces.

UNUSUAL FIRE AND EXPLOSION HAZARD PVC evolves hydrogen chloride, carbon monoxide, and other gases when burned. Exposure to combustion products may be fatal and should be avoided.

5. HEALTH HAZARD INFORMATION**FIRST AID**

EYES Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Call a physician.

Polyvinyl Chloride PVC Compound

SKIN	Flush with water to remove material from skin		
INHALATION	Remove to fresh air If breathing is difficult get medical attention		
INGESTION	If swallowed, call a physician immediately Only induce vomiting at the instruction of a physician Never give anything by mouth to an unconscious person		
NATURE OF HAZARD			
This material may contain a trace amount of vinyl chloride monomer Under normal processing conditions no occupational exposure exceeding the established exposure limits for this material is anticipated			
Handling of this material may result in the generation of dust that may cause physical irritation of the eyes skin and respiratory tract			
Decomposition of this material (e g equipment failures or any condition causing excessive heat) may lead to production of hydrogen chloride gas that is irritating to the eyes skin and upper respiratory tract and which when breathed in high concentrations, may be fatal Individuals with bronchial asthma or chronic obstructive respiratory diseases may develop constriction of the lung airways			
Employees should take personal protective measures under any conditions in which hydrogen chloride gas may be released			
Even under normal processing conditions various vapors may be produced that may be odorous irritating and in some individuals produce acute health effects The concentration and composition of these vapors depends on various factors including specific formulation in use processing method and temperature and the mechanical ventilation procedures employed			
CARCINOGENICITY			
IARC has determined that there is inadequate evidence of carcinogenicity of polyvinyl chloride (PVC) resin in both animals and humans The overall evaluation of PVC is Group 3 (not classifiable as a human carcinogen IARC Vol 19 1979) PVC is not listed as a carcinogen by OSHA, NIOSH NTP IARC or EPA			
Some additives used to make PVC compound may contain metals, which in some chemical forms are suspected or confirmed carcinogens These metals, if present, are bound in the crystalline structure of the additive and to the supplier s best knowledge, do not present a significant health risk Additionally, the low levels of additives used in PVC compounds are also bound in the polymer matrix and to the best of the supplier's knowledge, do not present a significant health risk			
EXPOSURE LIMITS			
No exposure limits have been established for this material It is recommended that exposure be kept below the limits for Nuisance			
Dust (PNOC)	OSHA-PH I	15 mg/M ³ 8 hr-TWA (total dust) 3 mg/M ³ 8 hr-TWA (respirable)	
	ACGIH-TLV	10 mg/M ³ 8 hr-TWA (inhalable) 5 mg/M ³ 8 hr-TWA (respirable)	
The following materials may be present in this product			
Calcium Carbonate		Carbon Black	
OSHA-PFL	15 mg/M ³ 8 hr-TWA (total dust) 5 mg/M ³ 8 hr-TWA (respirable)	OSHA-PH I	3.5 mg/M ³ 8 hr-TWA
ACGIH-TLV	10 mg/M ³ 8 hr-TWA	ACGIH-TLV	3.5 mg/M ³ 8 hr-TWA
Antimony Trioxide		Titanium Dioxide	
ACGIH-TLV	0.5 mg/M ³ 8 hr-TWA	OSHA-PLL	10 mg/M ³ 8 hr-TWA
		ACGIH-TLV	10 mg/M ³ 8 hr-TWA (total dust)
Lead Compounds		Cadmium Compounds	
OSHA-PH I	0.05 mg/M ³ 8 hr-TWA	OSHA-PH I	0.005 mg/M ³ 8 hr-TWA
ACGIH-TLV	0.05 mg/M ³ 8 hr-TWA	ACGIH-TLV	0.01 mg/M ³ 8 hr-TWA (inhalable) 0.002 mg/M ³ 8 hr-TWA (respirable)
Vinyl Chloride (all compounds)		Chromium Compounds	
OSHA-PFL	1 ppm 8 hr-TWA 5 ppm STEL/Ceiling	OSHA-PH I	0.5 mg/M ³ 8 hr-TWA (Cr II and Cr III)
ACGIH-TLV	1 ppm 8 hr-TWA	ACGIH-TLV	0.5 mg/M ³ 8 hr-TWA (Metals and Cr III)

Polyvinyl Chloride, PVC Compound

Arsenic Compounds

OSHA-PEL 0.5 mg/M³ 8 hr-TWA (organic compounds)
 0.1 mg/M³ 8 hr-TWA (inorganic compounds)
 ACGIH-TLV 0.01 mg/M³ 8 hr-TWA (elemental/inorganic)

Barium Compounds (soluble)

OSHA-PEL 0.5 mg/M³ 8 hr-TWA
 ACGIH-TLV 0.5 mg/M³ 8 hr-TWA

TOXICITY DATA

While PVC is generally considered an inert polymer, exposure to PVC dusts has been reported to cause lung changes in animals and humans including decreased respiratory capacity and inflammation. However, exposures approaching the nuisance dust exposure limits are not anticipated to pose any significant health risk.

Rodents exposed to PVC by the dietary or inhalation routes for 6 to 24 months have shown no significant toxicological effects.

SPECIAL PRECAUTIONS

AVOID INHALATION OF COMBUSTION PRODUCTS AND UNNECESSARY EXPOSURE OF EYES AND SKIN

CONDITIONS CONTRIBUTING TO INSTABILITY:

Do not allow this product to come in contact with acetal or acetal copolymers within the extruder or molding machine. At processing conditions, the two materials are mutually destructive and involve rapid degradation of the products. Equipment should be purged with acrylic, ABS, polystyrene, or other purge compound to avoid even trace amounts of this product and acetals from coming in contact with each other.

INCOMPATIBILITY

Acetal or acetal copolymers

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen chloride, carbon monoxide and other fumes generated with combustion

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:

Not applicable

In case of spill, sweep, scoop or vacuum and remove. Remove in a method that avoids the creation of dust. Dispose of only in accordance with local, state, and federal regulations.

WASTE CLASSIFICATION

If discarded in its purchased form, this product is not a RCRA hazardous waste. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, and mixtures may change the classification.

VENTILATION RECOMMENDATIONS

General ventilation for thermal processing and nuisance dust control

PERSONAL PROTECTIVE EQUIPMENT**RESPIRATORY PROTECTION**

If dust is produced during handling, a NIOSH-approved air purifying filter respirator that meets the requirements of 29 CFR 1910.134 should be used. Full-face self-contained breathing apparatus may be needed when dealing with fumes from combustion of product.

Polyvinyl Chloride, PVC Compound

EYES

Chemical safety glasses or goggles

GLOVES

Necessary when handling hot or molten compound (thermal protection gloves)

OTHER CLOTHING AND EQUIPMENT

As necessary when handling hot or molten compound

9. SHIPPING, TRANSFER, AND STORAGE**SHIPPING INFORMATION**

This product is not a hazardous material or hazardous substance as defined by the Department of Transportation, nor is it a dangerous good as defined by IATA for air transportation

TRANSPORTATION AND STORAGE**USUAL SHIPPING CONTAINERS**

Polylined steel tank cars or trucks, 1500-1600 lb. gaylords and 2400 lb super sacks

STORAGE / TRANSPORT TEMPERATURE

Extended storage or transport at temperatures above 150° F should be avoided to prevent potential agglomeration

HANDLING AND STORAGE MATERIALS AND COATINGS**SUITABLE**

Stainless or Polylined

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