Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080

Tel:908-754-1800 / Fax 908-754-1815

MSDS

Polyvinyl Chloride

In case of Emergengy Call Chemtrec ®
(U.S.) (800)-424-9300
(International) (703)-527-3887

Section I. Chemical Product and Company Identification

Supplier:

Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080
(908)-754-1800

Chemical Name: Polyvinyl Chloride
Synonym: PVC, vinyl
CAS Number: 9002-86-2
Chemical Formula: $(CH_2CHCl)_n$

HMIS Rating

Health	0
Flammability	1
Reactivity	0
Personal Protection	B

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Polyvinyl Chloride	9002-86-2	99+%	Not Established	Not Established
Bis(2-ethylhexyl) Phthalate *	117-81-7	< 1%	5.0mg/m³	5.0mg/m³
Vinyl Chloride Monomer **	75-01-4	<8.5ppm	1 ppm	5 ppm

* Bis(2-ethylhexyl) Phthalate is a NTP anticipated human carcinogen and IARC possible human carcinogen.
** Vinyl Chloride Monomer is an OSHA cancer suspect agent, ACGIH confirmed human carcinogen and NTP and IARC human carcinogen.

Section III Hazards Identification:

Accute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

Accute Health Effects: This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA. Two of Polyvinyl Chloride's impurities are listed as carcinogens.* Bis(2-ethylhexyl)Phthalate is a NTP anticipated human carcinogen and IARC possible human carcinogen. (Polyvinyl Chloride contains less than 1% by weight)** Vinyl Chloride Monomer is an OSHA cancer suspect agent, ACGIH confirmed human carcinogen, and NTP and IARC human carcinogen. (Polyvinyl Chloride contains less than 8.5 ppm)

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flamable
Flash Points: 391°C ASTM D1929
Auto-Ignition: Not Applicable
Flammable Limits: Not Applicable
Extinguishing Media: Water spray
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
Fire/Explosion Hazards: Emits toxic fumes under fire conditions

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature
Shelf Life: Unlimited in tightly closed container.
Special Sensitivity: None
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Free Flowing Powder
Color: White
Odor: Odorless
Molecular Weight: Not Applicable
Boiling Point: Not Established
Melting/Freezing Point: Decomposes above 250°C
Solubility In Water: Insoluble
Specific Gravity: 1.4± 0.02

Section X. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will Not occur
Incompatibilities: Avoid contact with Strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation.
Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Prolong heating of product above 200°C or short term heating above 250°C. may result in rapid evolution of hydrogen chloride.

Decomposition products: Hydrogen Chloride, carbon monoxide, carbon dioxide and small amounts of benzene and aromatic and aliphatic hydrocarbons.

Section XI. Toxicological Infomation

RTECS Number: Not Established for Polyvinyl Chloride

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: See Section III above and information below

Chronic Toxic Effects: Vinyl resin has little effect on the lungs and is not known to cause any disease when dust exposure is minimized. Routine inhalation of dust of any kind should be avoided.

Acute Toxic Effects: No adverse health effects are anticipated from this product at ambient temperature other than items stated in Section III.

Toxicity Data for: Bis(2-ethylhexyl)Phthalate*LD50 (rat, oral): 30,500 mg/kg Bis(2-ethylhexyl)Phthalate* is a NTP anticipated human carcinogen and IARC possible human carcinogen.

Toxicity Data for: Vinyl Chloride Monomer*LD50 (rat, inhalation): 18 pph /15M Vinyl Chloride Monomer* is an OSHA cancer suspect agent, ACGIH confirmed human carcinogen, and NTP and IARC human carcinogen.

* This data for Bis(2-ethylhexyl)Phthalate and Vinyl Chloride Monomer apply to the pure form of the compound. In Polyvinyl Chloride Bis(2-ethylhexyl)Phathalate exist in concentrations less than 1%. The Vinyl chloride Monomer exists in concentrations less than 8.5 ppm.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Polyvinyl Chloride

UN Number: N/A

Class: N/A

P.G.: N/A

Label Code: N/A

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: This product contains levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects. (Bis(2-ethylhexyl)Phthalate & Vinyl Chloride Monomer)

SARA 313 Title III:

Section 302 ExtremelyHazardous Substances: None
Section 311/312 Hazardous Categories: None
Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan

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