



Tenneco Polymers
A Tenneco Company

PV304

NUMBER

156

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MATERIAL SAFETY DATA

(Approved by U.S. Department of Labor as "essentially similar" to FORM OSHA-20)

SECTION I IDENTIFICATION OF PRODUCT

MANUFACTURER'S NAME TENNECO POLYMERS, INC., RESEARCH & DEVELOPMENT		EMERGENCY TELEPHONE NO. 609-386-9200 713-479-3411
ADDRESS RIVER ROAD, P.O. BOX 129, FLEMINGTON, NEW JERSEY 08822		
TRADE NAME AND SYNONYMS TENNECO PVC RESIN 185, 190, 195, 200, 225, 225F, 225PG, 225SG, 250, 250-3, 501, 530, 540		
CHEMICAL NAME AND SYNONYMS POLY(VINYL CHLORIDE), PVC HOMOPOLYMER		
CHEMICAL FAMILY CHLOROHYDROCARBON POLYMER	MOLECULAR FORMULA (CH ₂ CHCl) _n	MOL. WT.

SECTION II HAZARDOUS COMPONENTS OF MIXTURES

COMPONENT	%	THRESHOLD LIMIT VALUE	COMPONENT	%	THRESHOLD LIMIT VALUE
(UNITS) OSHA Standard 1910.93q(.1017) on vinyl chloride sets a permissible exposure limit of 1ppm averaged over any 8 hr period and 5ppm over any 15 min period. On the basis that polyvinyl chloride may contain and release small amounts of monomer, the Standard applies to the manufacture, reaction, packaging, repackaging, storage, handling, use or transportation of PVC, but not to handling or use of "fabricated products", as defined, if not subject to processing sufficient in time or temperature to cause mass melting. (UNITS)					

SECTION III PHYSICAL DATA

APPEARANCE AND ODOR White powder, odorless	
BOILING POINT (DEGREES FAHRENHEIT) Not applicable	MELTING POINT (DEGREES FAHRENHEIT) Not applicable Softens about 160 - 180°F
VAPOR PRESSURE (MM. OF MERCURY) Not applicable	SPECIFIC GRAVITY (WATER = 1) 1.4
VAPOR DENSITY (AIR = 1) Not applicable	PERCENT VOLATILE (BY WEIGHT) Approx. 1% (Moisture)
SOLUBILITY IN WATER Negligible	EVAPORATION RATE (BUTYLACETATE = 1) Not applicable

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SPECIFY METHOD) Ignition about 735°F auto Ignition about 850°F (ASTM D-1929)	FLAMMABLE LIMITS (PERCENT BY VOLUME) Not applicable	LOWER	UPPER
FIRE EXTINGUISHING MEDIA Water spray, carbon dioxide or dry chemical.			
SPECIAL FIRE-FIGHTING PROCEDURES Water spray or fog may be helpful in reducing flame intensity and absorbing irritating fumes.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NFPA lists ignition temperatures of 725°F for layer and 1220°F for PVC dust cloud. Produces combustible gases above 570°F. Fire conditions produce hydrogen chloride, requiring protective equipment.			

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II

EFFECTS OR OVEREXPOSURE

None expected - inert resin. See Section IX. Prolonged breathing of concentrated dust may be harmful. (Processing at high temperatures produces fumes irritating to eyes and respiratory tract requiring local exhaust).

EMERGENCY AND FIRST AID PROCEDURES

Ordinary measures of personal hygiene.

In case of exposure in hot processing move to fresh air, flush eyes with water.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Normal processing temperature, about 350°F, causes slow darkening and decomposition. Higher heat increases rate and evolution of HCl.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
None in ordinary use. Soluble in certain ketones and organic solvents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Thermal decomposition produces HCl, and CO and CO ₂ (above 570°F).			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	
None in ordinary use.			

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up and remove to disposal container.

WASTE DISPOSAL METHOD

Bury in an approved landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) In case of concentrated dust, use Bureau of Mines approved dust respirator (NIOBM TC-21C-132 or equivalent). See Sections II and IX:

VENTILATION	LOCAL EXHAUST For hot processing.	SPECIAL Vent to elevated stack.
	MECHANICAL (General) For ordinary handling.	OTHER Ventilate enclosed spaces.

PROTECTIVE GLOVES Not ordinarily required.	EYE PROTECTION Safety glasses.
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OTHER PROTECTIVE EQUIPMENT None required for ordinary handling. For hot processing local exhaust, safety glasses and gloves are recommended.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING OSHA Standard 1910.93q(.1017) requires monitoring and other precautions in storage, handling and use of polyvinyl chloride, and also labeling of PVC "Contains Vinyl Chloride-Vinyl Chloride is a Cancer-Suspect Agent". New PVC resins with a low monomer content make it easier to operate below the OSHA action-level of 0.5ppm in a processor's work area, assuming normal conditions and ventilation, simplifying compliance with some of the regulatory requirements. Further developments in resins and on regulations are pending.

DATE	5/30/84	NAME AND TITLE	D. GOODMAN, PRODUCT REGULATIONS	SHEET NUMBER	156
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