

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R-1387

MATERIAL SAFETY DATA SHEET

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Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

March, 1978

SECTION I

MANUFACTURER'S NAME PPG Industries, Inc.		EMERGENCY TELEPHONE NO. (304) 843-1300
ADDRESS (Number, Street, City, State, and ZIP Code) One Gateway Center, Pittsburgh, PA 15222		
CHEMICAL NAME AND SYNONYMS Vinyl Chloride Monomer		TRADE NAME AND SYNONYMS Vinyl Chloride, VCM
CHEMICAL FAMILY Chlorinated Hydrocarbon	FORMULA CH₂ = CHCl	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Vinyl Chloride Monomer				100	1 ppm

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	7.0	SPECIFIC GRAVITY (H ₂ O=1) @ 20/20° C	0.9121
VAPOR PRESSURE (mm Hg.) @20° C	2580	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	2.15	EVAPORATION RATE (ethyl ether =1)	1
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Clear, colorless liquified gas under pressure; mild, sweet odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	-108° F (Cleveland Open Cup)	FLAMMABLE LIMITS	Lel 3.6%	Uel 33%
EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires (see attached sheet).			
SPECIAL FIRE FIGHTING PROCEDURES	See attached sheet.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Burns to form toxic and corrosive gases, mostly hydrogen chloride.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See attached sheet

EFFECTS OF OVEREXPOSURE See attached sheet

EMERGENCY AND FIRST AID PROCEDURES See attached sheet

SECTION VI - REACTIVITY DATA

STABILITY UNSTABLE CONDITIONS TO AVOID Exposure to materials listed below
STABLE X

INCOMPATIBILITY Materials to avoid: Oxygen, moisture, polymerization initiators, copper, aluminum

HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride, carbon monoxide and possible traces of phosgene

HAZARDOUS POLYMERIZATION MAY OCCUR X CONDITIONS TO AVOID Contamination with materials listed above.
WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED See attached sheet

WASTE DISPOSAL METHOD Vinyl chloride evaporates completely, but adequate ventilation must be provided to prevent explosive mixtures. OSHA standard must also be followed.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Specific model: NIOSH/MSHA approved for concentrations as specified in OSHA Standard (29 CFR 1910.1000)

VENTILATION LOCAL EXHAUST Sufficient to maintain workplace concentration below 1% while maintaining compliance with EPA air emission standards. SPECIAL OTHER

PROTECTIVE GLOVES Neoprene EYE PROTECTION Chemical safety goggles used in accordance with 29 CFR 1910.133.

OTHER PROTECTIVE EQUIPMENT Neoprene boots, hard hat, protective clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING See attached sheet.

OTHER PRECAUTIONS See attached sheet.