

U.S. DEPARTMENT OF LABOR
WORKPLACE STANDARDS ADMINISTRATION
Bureau of Labor Standards

Form No. 158-005
May 1964

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME Allied Chemical Corp., Industrial Chemicals Div.		EMERGENCY TELEPHONE NO. 201-455-2000
ADDRESS (Number, Street, City, State, and ZIP Code) PO Box 1139R, Morristown, NJ 07960		
CHEMICAL NAME AND SYNONYMS Vinyl Chloride Monomer, Chloroethylene, Chloroethene	TRADE NAME AND SYNONYMS Vinyl Chloride, VCM	
CHEMICAL FAMILY Organic liquid under pressure	FORMULA CH₂CHCl	

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)
Not Applicable (NA)					
ASI 000021682					

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	+7°	SPECIFIC GRAVITY (H ₂ O=1) at 68/68°F	0.9121
VAPOR PRESSURE (mm Hg.) at 68°F	2580	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	2.15	EVAPORATION RATE (ether = 1)	Greater than 1
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR Colorless liquid with sweet odor (gas at ambient temp.)			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Open cup -108.4°F	FLAMMABLE LIMITS by volume in air	Lel 4%	Uel 22%
EXTINGUISHING MEDIA Carbon dioxide or dry chemical. Fog or water spray for cooling.			
SPECIAL FIRE FIGHTING PROCEDURES Shut off feed immediately if possible. In some circumstances, it may be best to let fire burn out due to greater danger of flash-back and detonation.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors form flammable mixtures with air at all temperatures above -108.4°F.			

All statements, information, and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, express or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required.

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE TWA = 1 ppm over 8 hr period (OSHA 1910.1017(c)(1))

EFFECTS OF OVEREXPOSURE Irritation will result from inhalation or contact with skin or eyes. Prolonged contact may cause freezing. If inhaled, has mild anesthetic effect, drowsiness, blurred vision. It is a CANCER-SUSPECT agent per 1910.1017(1)(1)

EMERGENCY AND FIRST AID PROCEDURES Speed in removing the liquid from the skin is of primary importance. Clothing or anything holding liquid in contact with the skin must be removed immediately to decrease the freezing effect. Wash skin and eyes with plenty of water for 15 minutes. Get medical attention at once.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Polymerizes readily in the presence of
	STABLE		air, sunlight, oxygen or heat.
INCOMPATIBILITY (Materials to avoid) Copper and copper-bearing alloys, air, oxygen and peroxides.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride and carbon dioxide gases. (Phosgene and carbon monoxide possible with incomplete combustion.)			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Exposure to air, oxygen, peroxides
	WILL NOT OCCUR		sunlight or heat. Polymerization reaction can be violent.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spills evaporate very rapidly. Provide ample ventilation. All sources of ignition in area must be shut off immediately. Gas and liquid are flammable. May explode in 4 to 22% concentration in air. Sewer openings must be trapped for segregation and extinguishment.

WASTE DISPOSAL METHOD Depends on applicable disposal regulations and surrounding weather conditions. It is preferable to vent it as a vapor to an area free of any source of ignition if permitted.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type: Hose mask, air line mask or self-contained breathing equipment approved by NIOSH and MESA in accordance with CFR29 1910-

VENTILATION	LOCAL EXHAUST	SPECIAL 1017(g)
	Ample enough to remove all gas fumes	
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Rubber gloves		EYE PROTECTION Gas-tight safety goggles and face shield
OTHER PROTECTIVE EQUIPMENT Hard hat, synthetic rubber safety shoes and protective clothing necessary to prevent skin contamination.		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store tank cars in isolated area when not being emptied.

OTHER PRECAUTIONS

Information is necessarily abbreviated due to space. For more complete information, check with MCA on availability of Vinyl Chloride Data Sheet.