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SHELL OIL COMPANY
SHELL CHEMICAL COMPANY
SHELL DEVELOPMENT COMPANY
SHELL PIPE LINE CORPORATION

MSDS 645-8

HAZARD RATING

NFPA

MATERIAL SAFETY DATA SHEET

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SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Shell Chemical Company	713-473-9461
ADDRESS (Number, Street, City, State, and ZIP Code) One Shell Plaza, Houston, Texas, P. O. Box 2463	
CHEMICAL NAME AND SYNONYMS Vinyl Chloride, Chloroethylene, Chloroethene	TRADE NAME Vinyl Chloride Monomer (VCM)
CHEMICAL FAMILY Vinyl Halide	FORMULA C_2H_3Cl

SECTION II HAZARDOUS INGREDIENTS*

COMPOSITION	%	SPECIES	LD_{50} ORAL	LD_{50} DERMAL	LC_{50} CONCENTRATION	LC_{50} HOURS
Vinyl Chloride	100					

DANGER! EXTREMELY FLAMMABLE, TOXIC LIQUEFIED COMPRESSED GAS. CANCER SUSPECT AGENT.

Long-term exposure to vinyl chloride vapor has caused cancer including a rare form of liver cancer in animals. Some production workers exposed for many years to high concentrations of vinyl chloride monomer vapor have developed the same type of liver cancer. In addition, there are reports that vinyl chloride may cause cancer at other sites as well. Degeneration of the ends of finger bones has also been observed in some workers after prolonged exposure to high vinyl chloride monomer concentrations.

SECTION III PHYSICAL DATA

BOILING POINT (°F)	7	SPECIFIC GRAVITY (H_2O=1) 20°C	0.91
VAPOR PRESSURE (mmHg) @ 68°F	2580	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	2.15	EVAPORATION RATE (_____=1)	
SOLUBILITY IN WATER	Slight		

APPEARANCE AND ODOR: Colorless, sweet smelling gas.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
(TOC) -78°C (-108°F)		3.6	33

EXTINGUISHING MEDIA: Notify fire department. For massive cargo fires involving multiple containers, let it burn itself out. Evacuate the area of all personnel to 2000 ft. due to danger of exploding vessels (BLEVE's). In addition, downwind areas should be evacuated if there is danger of exposure to toxic combustion gases. For small fires, evacuate immediate vicinity. If without danger to personnel, cool nearby containers with water spray or fog to keep fire from spreading.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat can cause polymerization. Stay away from ends of tanks. Combustion products contain corrosive and toxic HCl, possibly carbon monoxide and phosgene. All combustion products are harmful and potentially lethal in high concentrations.

*Modified by Shell Oil Company