



OCEAN® Network
EMERGENCY PHONE 1-800-OLIN-911

MATERIAL SAFETY DATA

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS Vinyl Chloride		
CHEMICAL FAMILY Halogenated hydrocarbon	FORMULA CH ₂ CHCl	TRADE NAME Vinyl Chloride
DESCRIPTION Colorless sweet smelling gas		CAS NO. 75-01-4

SECTION II - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

May be fatal if inhaled. Avoid contact with eyes, skin or clothing. Upon contact with skin or eyes, wash off with water. Store in a cool, dry, well-ventilated place away from all sources of ignition. Avoid breathing mist or vapor. Avoid contact with oxidizers and peroxides.

*Regulated by OSHA as a carcinogen. Follow OSHA requirements 29 CFR 1910.1017.

PROTECTIVE EQUIPMENT		VENTILATION REQUIREMENTS
Eyes	Goggles	As required to keep airborne concentrations below the TLV.
Gloves	Nitrile rubber, viton	
Other	Impervious coveralls, boots, cap and safety shower *See above	

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL	OSHA PEL	LD 50	LC 50	SIGNIFICANT EFFECTS
Vinyl chloride	1 ppm (TWA) 5 ppm (ceiling)	500 mg/kg (oral-rat)	No data	May cause eye, skin, and mucous membrane irritation. Damage to kidney, liver and blood. Human carcinogen (NTP, OSHA). May cause skin sensitization.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD -108°F CC	OSHA CLASSIFICATION Flammable gas	FLAMMABLE EXPLOSIVE LIMITS	LOWER 3.6%	UPPER 33%
EXTINGUISHING MEDIA Stop flow of gas. Use water to cool exposed containers and protect personnel effecting shut-off or fighting fire. Container may explode violently in heat of fire.				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face-shield when any material is involved in a fire. Water spray should be used to cool fire exposed containers/and/or to disperse unignited vapors.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Vinyl Chloride: 5 ppm (ACGIH 1987-88)	
SYMPTOMS FROM OVER EXPOSURE Narcosis. May cause eye, skin and mucous membrane irritation. Damage to kidney, liver and blood.	
EMERGENCY FIRST-AID PROCEDURES	
SKIN	Immediately flush with water for 15 minutes, call a physician.
EYES	Immediately flush with water for 15 minutes, call a physician.
INGESTION	Immediately drink large quantities of water. Induce vomiting by sticking finger down throat. Call a physician.
INHALATION	Immediately remove victim to fresh air, call a physician.

CHEMICAL NAME Vinyl Chloride

SECTION VI - TOXICOLOGY (Product)

ACUTE ORAL LD 50	500 mg/kg (rat)	CARCINOGENICITY	Human carcinogen (NTP)
	May be fatal if inhaled.	MUTAGENICITY	Positive
ACUTE DERMAL LD 50	No available data	EYE IRRITATION	May be an irritant
		PRIMARY SKIN IRRITATION	May be an irritant
ACUTE INHALATION LC 50	No available data		
PRINCIPAL ROUTES OF ABSORPTION			
Inhalation			
EFFECTS OF ACUTE EXPOSURE			
Damage to liver, kidney and blood. Narcosis. May cause eye, skin and mucous membrane irritation. May cause skin sensitization.			
EFFECTS OF CHRONIC EXPOSURE			
Damage to liver, kidney and blood. Vinyl chloride is a human carcinogen. May cause skin sensitization.			

SECTION VII - SPILL AND LEAKAGE PROCEDURES (Control Procedures)

ACTION FOR MATERIAL RELEASE OR SPILL

Wear NIOSH/MSHA approved positive pressure supplied air respirator. Follow OSHA regulations for respirator use (See 29 CFR 1910.134). Wear goggles, impervious coveralls and boots, and nitrile rubber or viton gloves. Remove all sources of ignition. Stop flow of gas. Remove tank or cylinder to open area. Isolate area until gas has dispersed. Wash all contaminated clothing before reuse. In the event of a large spill, call the emergency telephone number shown on the front of this sheet.

TRANSPORTATION EMERGENCY, CONTACT CHEMTREC 800-424-9300

WASTE DISPOSAL METHOD

Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - SHIPPING DATA

D.O.T. CLASS

Not shipped: (Process Intermediate)

SECTION IX - REACTIVITY DATA

STABLE	☒ UNSTABLE	AT	ND ^c	ND ^a	HAZARDOUS POLYMERIZATION	MAY OCCUR	☒
						WILL NOT OCCUR	
CONDITIONS TO AVOID							
Excess heat, any source of ignition							
INCOMPATIBILITY (Material to Avoid)							
Strong oxidizers or bases, aluminum powder, copper or copper alloys, peroxides							
HAZARDOUS DECOMPOSITION PRODUCTS							
Chlorine gas, phosgene, carbon monoxide							

SECTION X - PHYSICAL DATA

MELTING POINT	-245°F	VAPOR PRESSURE	2945 mmHg@25°F	VOLATILES	100%
BOILING POINT	8°F	SOLUBILITY IN WATER	Negligible	EVAPORATION RATE	No data
SPECIFIC GRAVITY (H ₂ O = 1)	0.91	pH	Not applicable	VAPOR DENSITY (Air = 1)	2.24
AUTOIGNITION TEMP.: 882°F					

INFORMATION FURNISHED BY:

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and Toxicology
(203) 789-5436

DATE

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