

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME B. F. Goodrich Chemical Company		EMERGENCY TELEPHONE NO. Chemtrec (800) 424-9300
ADDRESS (Number, Street, City, State, and ZIP Code) 6100 Oak Tree Blvd., Cleveland, Ohio 44131		
CHEMICAL NAME AND SYNONYMS Vinyl Chloride, Chloroethylene, Chloroethene		TRADE NAME AND SYNONYMS Good-rite Vinyl Chloride
CHEMICAL FAMILY Monomer (Halogenated Hydrocarbon)	FORMULA CH ₂ 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				100	500ppm

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	7	SPECIFIC GRAVITY (H ₂ O=1) @ 150/40° C	0.9195
VAPOR PRESSURE (mm Hg.) @ 68°F	2570	PERCENT VOLATILE BY VOLUME (%)	99.99
VAPOR DENSITY (AIR=1)	2.15	EVAPORATION RATE (_____=1)	N.A.*
SOLUBILITY IN WATER	slightly		
APPEARANCE AND ODOR	Colorless liquid or gas with faintly sweet odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	-108.4°F O.C.	FLAMMABLE LIMITS % by volume in air	LeI 3.6	UeI 26.4
EXTINGUISHING MEDIA	Carbon Dioxide, dry chemical agents (preferred)			
SPECIAL FIRE FIGHTING PROCEDURES	See Section 7.5.2 of M.C.A. Chemical Safety Data			
Sheet SD-56 (Revised 1972)				
UNUSUAL FIRE AND EXPLOSION HAZARDS An explosion hazard can exist when drawing samples or venting. Open flame, local hot spots, friction, spark producing equipment and static electricity are to be avoided when handling this material.				

* Not Available

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
500 ppm or 1300 Mg/M³

EFFECTS OF OVEREXPOSURE

Exposure of high levels may produce some lung irritation; chronic overexposure may produce liver injury. Acts as anesthetic when inhaled.

EMERGENCY AND FIRST AID PROCEDURES

Immediately remove affected individual to fresh air. Remove clothing and shoes affected by concentrated form. Wash affected skin areas with soap and water (warm). Wash affected eyes with room temperature water for 15 minutes. Refer individual to physician immediately.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Presence of oxygen, air, sunlight, heat and contamination.
	STABLE	**	
INCOMPATIBILITY (Materials to avoid) Oxygen, acetylene in contact with copper, oxygen generating compounds.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen Chloride and Acetylene (higher analogs of benzene and acetylene may be produced).			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Heat, Oxygen, sunlight
	WILL NOT OCCUR		

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Call Chemtrec immediately at (800) 424-9300 in the 48 contiguous States of the U.S.A.; 483-7616 in District of Columbia; (200) 483-7616 in Alaska - See Section 7.5 and Section 9 of M.C.A. Chemical Safety Data Sheet SD-56 (Revised 1972).

WASTE DISPOSAL METHOD

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Self-contained breathing apparatus (air); Positive Pressure Hose Mask; Air-line mask, Chemical Cartridge Respirators, Industrial canister-type gas mas

VENTILATION	LOCAL EXHAUST Adequate to maintain exposures	SPECIAL Non-sparking and explosion-proof
	MECHANICAL (General) Below 500 ppm	OTHER Motors-Class I, Div. I (N.E.C.)
PROTECTIVE GLOVES Work Gloves (rubber preferred)		EYE PROTECTION Chemical Safety Goggles
OTHER PROTECTIVE EQUIPMENT "Bump Caps", full face shields.		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

See Section 7 or M.C.A. Chemical Safety Data Sheet SD-56 (Revised 1972)

OTHER PRECAUTIONS

All containers containing vinyl chloride must be labeled as required by law.

** Under proper handling and storage conditions, vinyl chloride is stable. Note Conditions to Avoid.

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OTHER CHEMICAL SAFETY DATA SHEETS AVAILABLE

(Date of latest available edition, as of March 1972, given in parentheses)

Acetaldehyde _____ (1952) SD-43	Cresol _____ (1952) SD-48	Ortho-Dichlorobenzene _____ (1953) SD-54
Acetic Acid _____ (1951) SD-41	Cyclohexane _____ (1957) SD-68	Paraformaldehyde _____ (1960) SD-6
Acetic Anhydride _____ (1962) SD-15	Diethylamine _____ (1971) SD-97	Perchloroethylene _____ (1971) SD-24
Acetone _____ (1962) SD-87	Diethylenetriamine _____ (1959) SD-76	Perchloric Acid Solution _____ (1965) SD-11
Acetylene _____ (1957) SD-7	Dimethyl Sulfate _____ (1966) SD-19	Phenol _____ (1964) SD-4
Acrolein _____ (1961) SD-85	Dinitrotoluenes _____ (1966) SD-93	Phosgene _____ (1967) SD-95
Acrylonitrile _____ (1964) SD-31	Ethyl Acetate _____ (1953) SD-51	Phosphoric Acid _____ (1958) SD-70
Aluminum Chloride _____ (1956) SD-62	Ethyl Chloride _____ (1953) SD-50	Phosphoric Anhydride _____ (1948) SD-28
Ammonia Anhydrous _____ (1960) SD-8	Ethyl Ether _____ (1965) SD-29	Phosphorus, Elemental _____ (1947) SD-16
Ammonia Aqua _____ (1947) SD-13	Ethylene Dichloride _____ (1971) SD-18	Phosphorus Oxychloride _____ (1968) SD-26
Ammonium Dichromate _____ (1952) SD-45	Ethylene Oxide _____ (1971) SD-38	Phosphorus Pentasulfide _____ (1958) SD-71
Aniline _____ (1963) SD-17	Formaldehyde _____ (1960) SD-1	Phosphorus Trichloride _____ (1972) SD-27
Antimony Trichloride (Anhydrous) _____ (1957) SD-66	Hydrochloric Acid _____ (1970) SD-39	Phthalic Anhydride _____ (1956) SD-61
Arsenic Trioxide _____ (1956) SD-60	Hydrocyanic Acid _____ (1961) SD-67	Propylene _____ (1956) SD-59
Benzene _____ (1960) SD-2	Hydrofluoric Acid _____ (1970) SD-25	Sodium Chlorate _____ (1952) SD-42
Benzoyl Peroxide _____ (1960) SD-81	Hydrogen Peroxide _____ (1969) SD-53	Sodium Cyanide _____ (1967) SD-30
Benzyl Chloride _____ (1957) SD-69	Hydrogen Sulfide _____ (1968) SD-36	Sodium, Metallic _____ (1952) SD-47
Betanaphthylamine _____ (1949) SD-32	Isopropylamine _____ (1959) SD-72	Sodium and Potassium Dichromates _____ (1952) SD-46
Boron Hydrides _____ (1961) SD-84	Lead Oxides _____ (1956) SD-64	Styrene Monomer _____ (1971) SD-37
Bromine _____ (1968) SD-49	Maleic Anhydride _____ (1962) SD-88	Sulfur _____ (1959) SD-74
Butadiene _____ (1954) SD-55	Methanol _____ (1970) SD-22	Sulfur Chlorides _____ (1960) SD-77
n-Butyllithium in Hydrocarbon Solvents _____ (1966) SD-91	Methyl Acrylate and Ethyl Acrylate _____ (1960) SD-79	Sulfur Dioxide _____ (1953) SD-52
Butyraldehydes _____ (1960) SD-78	Methylamines _____ (1955) SD-57	Sulfuric Acid _____ (1963) SD-20
Calcium Carbide _____ (1967) SD-23	Methyl Bromide _____ (1968) SD-35	Tetrachloroethane _____ (1949) SD-34
Carbon Disulfide _____ (1967) SD-12	Methyl Chloride _____ (1970) SD-40	Toluene _____ (1956) SD-63
Carbon Tetrachloride _____ (1963) SD-3	Methylene Chloride _____ (1962) SD-86	Toluidine _____ (1961) SD-82
Caustic Potash _____ (1968) SD-10	Methyl Ethyl Ketone _____ (1961) SD-83	Toluene Diisocyanate _____ (1971) SD-73
Caustic Soda _____ (1968) SD-9	Mixed Acid _____ (1956) SD-65	1, 1, 1-Trichloroethane _____ (1965) SD-90
Chlorine _____ (1970) SD-80	Naphthalene _____ (1956) SD-58	Trichloroethylene _____ (1956) SD-14
Chloroform _____ (1962) SD-89	Nitric Acid _____ (1961) SD-5	Vinyl Acetate _____ (1970) SD-75
Chlorosulfonic Acid _____ (1968) SD-33	paraNitroaniline _____ (1966) SD-94	Vinyl Chloride _____ (1972) SD-56
Chromic Acid _____ (1952) SD-44	Nitrobenzene _____ (1967) SD-21	Zirconium and Hafnium Powder _____ (1966) SD-92
	Nitrocellulose (Wet Types) _____ (1970) SD-96	

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