

MATERIAL SAFETY DATA SHEET

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

October, 1977

SECTION I

MANUFACTURER'S NAME PPG Industries, Inc.		EMERGENCY TELEPHONE NO. (318) 882-1200
ADDRESS (Number, Street, City, State, and ZIP Code) One Gateway Center Pittsburgh, PA 15222		
CHEMICAL NAME AND SYNONYMS Trichloroethylene, Ethylene Trichloride		TRADE NAME AND SYNONYMS Trichlor, Trichlorethylene
CHEMICAL FAMILY Halogenated Hydrocarbons	FORMULA CHCl=CCl ₂	

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)
Trichloroethylene				100	100 ppm

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	188	SPECIFIC GRAVITY (H ₂ O=1)	1.465
VAPOR PRESSURE (mm Hg.) @20°C	57.8	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	4.54	EVAPORATION RATE (ethyl ether=1)	0.28
SOLUBILITY IN WATER	0.11%		
APPEARANCE AND ODOR Clear, colorless liquid with ether-like odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	See attached sheet	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Water, dry chemical or CO ₂ (for fires involving trichlor)				
SPECIAL FIRE FIGHTING PROCEDURES Wear respiratory protection - trichlor involved in fires can decompose to hydrochloric acid and traces of phosgene.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors can be ignited by high intensity source of ignition (above 1300°F) burning forms hydrochloric acid and traces of phosgene.				

SECTION V - HEALTH HAZARD DATA**THRESHOLD LIMIT VALUE**

OSHA - 100 ppm (8-hour TWA); 200 ppm (5 min. in 2 hours); 300 ppm (max. allowable con.)

EFFECTS OF OVEREXPOSURE

May cause cancer in experimental laboratory animals (see attached sheet)

EMERGENCY AND FIRST AID PROCEDURES

See attached sheet.

SECTION VI - REACTIVITY DATA**STABILITY**

UNSTABLE

STABLE

CONDITIONS TO AVOID

Avoid open flames, hot glowing surfaces, electric arcs.

INCOMPATIBILITY (Materials to avoid) Avoid contact with caustic soda or caustic potash; may react producing explosive mixtures.**HAZARDOUS DECOMPOSITION PRODUCTS**

Hydrochloric acid and traces of phosgene.

**HAZARDOUS
POLYMERIZATION**

MAY OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID

None

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Immediately evacuate area and provide maximum ventilation. Only personnel equipped with proper respiratory and skin/eye protection should be allowed in area. Collect spilled material on sawdust or vermiculite and sweep into closed containers for disposal, then flush area with plenty of water and maintain ventilation until vapors are eliminated.

WASTE DISPOSAL METHOD

EPA-approved incineration or contact local waste disposal contractor.

SECTION VIII - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION (Specify type)**

See attached sheet.

VENTILATION**LOCAL EXHAUST****SPECIAL**

MECHANICAL (General) Sufficient to maintain workplace concentration below TLV.

OTHER

PROTECTIVE GLOVES Polyethylene, neoprene or polyvinyl alcohol

EYE PROTECTION

Splash-proof goggles

OTHER PROTECTIVE EQUIPMENT

Safety shoes, eye-wash fountain

SECTION IX - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

See attached sheet.

OTHER PRECAUTIONS

See attached sheet.

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