

## Material Safety Data Sheet

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24 Hour Emergency Assistance

Section 1 Identification					
Product Number:	C2925				
Product Name:	1,1,1-Trichloroethane	Laboratory Grade	Health:	3	
Trade/Chemical Synonyms			Flammability	0	
Formula:	CH <sub>2</sub> Cl <sub>3</sub>		Reactivity	0	
RTECS:	KJ2975000		Hazard Rating:	Least Slight Moderate High Extreme	
C.A.S	CAS# 71-55-6			0 1 2 3 4	
				NA = Not Applicable NE = Not Established	
Section 2 Component Mixture					
Sara 313	Component	CAS Number	%	Dim	Exposure Limits:
<input checked="" type="checkbox"/>	1,1,1-Trichloroethane	CAS# 71-55-6	100%	W/W	350 ppm OSHA TWA, 450 ppm OSHA STEL
Section 3 Hazard Identification (Also see section 11)					
May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.					
Section 4 First Aid Measures					
May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.					
FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.					
EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen					
INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.					
Section 5 Fire Fighting Measures					
Fire Extinguisher Type:	Water spray, Carbon dioxide, dry chemical.				
Fire/Explosion Hazards:	Vapor may travel considerable distance to source of ignition and flash back.				
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.				
Section 6 Accidental Release Measures					
Evacuate area. Wear self-contained breathing apparatus and protective clothing. Eliminate all sources of ignition.					
Section 7 Handling and Storage					
Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.					
Section 8 Exposure Controls & Personal Protection					
Respiratory Protection: NIOSH/MSHA-approved respirator					
Mechanical:		Hand Protection:		Solvent resistant gloves as neoprene or nitrile	
<input type="checkbox"/>		<input type="checkbox"/>			
Ventilation:					
Local Exhaust:		Eye Splash Protection:		Eye Splash Protection: Goggles	
<input checked="" type="checkbox"/>		<input type="checkbox"/>			
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure					
Section 9 Physical and Chemical Properties					
Melting Point:	-45°C	Specific Gravity	1.300		
Boiling Point:	72-88°C	Percent Volatile by Volume:	>99		
Vapor Pressure:	135 mm Hg @25°C	Evaporation Rate:	0.35		
Vapor Density:	4.54	Evaporation Standard:	Ether =1		
Solubility in Water:	Negligible	Auto ignition Temperature:	Information not available		
Appearance and Odor:	Clear, colorless liquid with organic odor	Lower Flamm. Limit in Air:	7%		
Flash Point:	Information not available	Upper Flamm. Limit in Air:	15%		
Section 10 Stability and Reactivity Information					
Conditions to Avoid: Avoid contact with heat, sparks, flames, or other sources of ignition.					
Materials to Avoid: Oxidizing materials, caustic soda, caustic potash.					
Hazardous Decomposition Products: hydrogen chloride and traces of phosgene					
Hazardous Polymerization: Will Not Occur					
Condition to Avoid: None known					
Section 11 Additional Information					
DANGER!! The vapors of this material can be ignited in a closed poorly ventilated area. This material can produce toxic fumes when ignited. Effects of over exposure: Irritation of the eyes, skin and upper respiratory tract. Chronic: none are listed by the manufacturer. Target organs: eyes, skin, upper respiratory tract, central nervous system. Conditions aggravated/target organs. Persons with pre-existing eye, skin or respiratory conditions may be more susceptible.					

DOT Classification: 1,1,1-Trichloroethane, 6.1,  
UN2831,PG III

DOT regulations may change from time to time.  
Please consult the most recent version of the  
relevant regulations.

Revision	Date Entered:	Approved by:
No:0.1	9/1/2006	WPF

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