

## Material Safety Data Sheet

**Science Stuff, Inc.**  
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**Austin, TX 78753**

**Phone (512) 837-6020**  
**Chemtrec 800-424-9300**  
**24 Hour Emergency Assistance**

Section 1 Identification	
Product Number:	C2925
Product Name:	1,1,1-Trichloroethane Laboratory Grade
Trade/Chemical Synonyms:	
Formula:	CH <sub>2</sub> Cl <sub>2</sub>
RTECS:	KJ2975000
C.A.S:	CAS# 71-55-6

Health:	3			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Lea st	Slig ht	Moder ate	Hig h	Extre me
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.

**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

Solvent resistant  
Hand t gloves  
Protectio as  
n: neopre  
ne or  
nitrile

Mechanical:

Ventilation:

Eye Splash  
Protectio Goggles  
n:

Local Exhaust:

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	Evaporati on Rate:	0.35
Vapor Density:	4.54	Evaporati on Standard:	Ether =1
Solubilit y in Water:	Negligibl e	Auto ignition Temperature:	Informat ion not available
Appearance and Odor:	Clear, colorless liquid with organic	Lower Flamm. Limit in Air:	7%

<p>Fire/Explosion Hazards:</p> <p>Fire Fighting Procedure:</p>	<p>Vapor may travel considerable distance to source of ignition and flash back.</p> <p>Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.</p>	<p>odor</p> <p>Flash Point: Information not available</p> <p>Upper Flamm. Limit in Air: 15%</p>			
		<p><b>Section 10 Stability and Reactivity Information</b></p> <p>Conditions to Avoid: Avoid contact</p> <p>Stability: Stable with heat, sparks, flames, or other sources of ignition.</p> <p>Materials to Avoid: Oxidizing materials, caustic soda, caustic potash.</p> <p>Hazardous Decomposition Products: hydrogen chloride and traces of phosgene</p> <p>Hazardous Polymerization: Will Not Occur</p> <p>Condition to Avoid: None known</p> <p><b>Section 11 Additional Information</b></p> <p>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.</p> <p>DOT Classification: 1, 1, 1- Trichloroethane, 6.1, UN2831, PG III</p> <p>DOT regulations may change from time to time. Please consult the most recent version of the relevant regulations.</p> <table border="0"> <tr> <td>Revision No: 0.1</td> <td>Date Entered: 9/1/2006</td> <td>Approved by: WPF</td> </tr> </table>	Revision No: 0.1	Date Entered: 9/1/2006	Approved by: WPF
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