

# MATERIAL SAFETY DATA SHEET

Tetrahydrofuran

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Tetrahydrofuran  
Product Code: T5113  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 7/1/2013  
Print Date: 7/1/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	3
Reactivity:	0

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4

NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Tetrahydrofuran (Stabilized)	CAS# 109-99-9	100	V/V	OSHA TWA 200 ppm (590 mg/mf)

## SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, 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: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, dry chemical, carbon dioxide, alcohol foam  
Fire / Explosion Hazards: Vapors may form explosive mixture with air.  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Tetrahydrofuran

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Remove all sources of ignition. Ventilate area of leak or spill.  
Wear protective equipment. Clean up in a manner that doesn't disperse dust.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator  
Ventilation  
Local Exhaust   
Mechanical   
Protective Gloves: Solvent resistant gloves as neoprene or nitrile  
Eye Protection: Goggles and Face Shield  
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	-108°C	Percent Volatile by Volume:	100
Boiling Point:	66°C	Evaporation Rate	14.5
Vapor Pressure:	114	Evaporation Standard	Butylacetate =1
Vapor Density:	2.5	Auto Ignition Temp	610° F
Solubility in Water:	Miscible	Lower Flamm. Limit in Air	1.8
Appearance /Odors:	Colorless liquid, ether-like odor	Upper Flamm. Limit in Air	11.8
Flash Point:	-14° C		
Specific Gravity:	0.88		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable  
Conditions to Avoid: Avoid contact with heat, sparks, flames, or other sources of ignition.  
Materials to Avoid: Oxidizing materials, bases  
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.  
Hazardous polymerization: Will Not Occur  
Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

Tetrahydrofuran

**SECTION 14 Transport Information**

DOT Classification: UN2056, Tetrahydrofuran, 3, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

**SECTION 16 Additional Information**

Effects of overexposure, Acute: Irritating to eyes and skin. May cause redness and pain. Inhalation may cause irritation of the nose and throat, dizziness and headache. Irritating to mucous membranes. Ingestion may cause sore throat and abdominal pain. Chronic: No information found. Conditions aggravated: persons with pre-existing eye, skin and respiratory conditions may be more susceptible. Target organs: Liver and kidneys

Flammability

Health

Reactivity

Revisions

NFPA

0.1

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.