

# MATERIAL SAFETY DATA SHEET

Maleic Anhydride Solution 2% w/v in Toluene

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Maleic Anhydride Solution 2% w/v in Toluene  
Product Code: 5505  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 6/11/2013  
Print Date: 6/11/2013  
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. Harmful if swallowed. Avoid breathing vapors. 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 checked="" type="checkbox"/>	Maleic Anhydride	CAS# 108-31-6	2%	W/V	TXDS: orl-rat LD <sub>50</sub> 481 mg/Kg
<input checked="" type="checkbox"/>	Toluene	CAS# 108-88-3	Balance	V/V	OSHA TWA 200 ppm

## SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. 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: Carbon Dioxide, dry chemical powder or appropriate foam  
Fire / Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

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Fire Fighting Procedure: Use water spray to cool fire exposed containers.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Eliminate ignition sources. Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

**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: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	-139°F	Percent Volatile by Volume:	98%
Boiling Point:	231°F	Evaporation Rate	2.4
Vapor Pressure:	10mm Hg @ 70°F	Evaporation Standard	Butylacetate =1
Vapor Density:	3.18	Auto Ignition Temp	Information not available
Solubility in Water:	0.6mg / Liter	Lower Flamm. Limit in Air	1%
Appearance /Odors:	Colorless liquid, strong aromatic odor	Upper Flamm. Limit in Air	7%
Flash Point:	40°F		
Specific Gravity:	0.863		

**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:	Strong oxidizers, metals, strong bases, amines
Hazardous Decomposition Products:	Toxic fumes of: Carbon Monoxide, Carbon Dioxide
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

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**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: UN1993, Flammable Liquid, n.o.s. (Toluene),  
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**

Conditions aggravated/target organs: Toxic! Persons with preexisting skin, eye and respiratory conditions will be more susceptible. Acute: Skin, eye, respiratory tract and digestive tract irritation, headache, dizziness, central nervous system effects, kidney and liver damage, cardiac arrest. Chronic: Dermatitis, defatting of skin, eye damage.

Flammability

Health

Reactivity

Revisions

NFPA

0.1

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