

## Material Safety Data Sheet

Science Stuff, Inc.  
1104 Newport Ave  
Austin, TX 78753

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

## Section 1 Identification

Product Number:	C2948	
Product Name:	Universal Indicator Solution (pH 2-10)	Health: 3
Trade/Chemical Synonyms:		Flammability: 3
Formula:	N/A	Reactivity: 0
RTECS:	None	Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4
C.A.S	See Below	NA = Not Applicable NE = Not Established

## Section 2 Component Mixture

Sara 313	Component	CAS Number	%	Dim	Exposure Limits:
	Bromothymol Blue	CAS# 76-59-5	0.08%	W/ V	None established
	Methanol (Methyl Alcohol) (Low Acetone),	CAS# 67-56-1	Balance	v/v	OSHA TWA 200 ppm, ACGIH STEL 250 ppm
	Methyl Red Hydrochloride	CAS# 63451-28-5	0.04%	W/ V	None Established
	Phenolphthalein	CAS# 77-09-8	0.02%	W/ V	TXDS: irp-rat LDLo: 500 mg/Kg
	Thymol Blue	CAS# 76-61-9	0.1%	W/ V	None Established

## Section 3 Hazard Identification (Also see section 11)

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 4 First Aid Measures

## Section 6 Accidental Release Measures

Eliminate Ignition Sources. Absorb with vermiculite or other inert material. Place in container. If fire hazard exists, blanket spill with alcohol foam or use water spray to disperse vapors.

## Section 7 Handling and Storage

Use in a well ventilated area. Keep container closed when not in use. Do not get on skin in eyes or on clothing. Do not expose to temperatures above 140 deg F.

## Section 8 Exposure Controls &amp; Personal Protection

Respiratory Protection: NIOSH/MSHA-approved respirator

Mechanical: Wear appropriate gloves to prevent skin exposure  
Hand Protection: Eye Splash Protection: Goggles  
Local Exhaust: Eye Splash Protection: Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure. Use in a well ventilated area.

## Section 9 Physical and Chemical Properties

Melting Point:	-144 F	Specific Gravity	0.792
Boiling Point:	148.3 F	Percent Volatile by Volume:	100%
Vapor Pressure:	96.0 Hg	Evaporation Rate:	2.0
Vapor Density:	1.11	Evaporation Standard:	Butylacetate =1
Solubility in Water:	Soluble	Auto ignition Temperature:	information not available
Appearance and Odor:	Green liquid with alcohol odor	Lower Flamm. Limit in Air:	5.5% in air by Vol.

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:** 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 victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

### 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.

**Fire Fighting Procedure:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Flash Point:	54 Deg F (Open cup)	Upper Flamm. Limit in Air:	36.5% in air by Vol.
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### Section 10 Stability and Reactivity Information

Stability: Stable Conditions to Avoid: Section 11

Materials to Avoid:  
Section 11

Hazardous Decomposition Products:  
oxides of carbon

Hazardous Polymerization: Will Not Occur

Condition to Avoid: None known

### Section 11 Additional Information

Conditions to avoid/Incompatibilities: Avoid heat sparks, and open flames. Incompatible with Acids and Oxidizers. **INGESTION:** may be poisonous or fatal or cause blindness if swallowed. Exposure may adversely affect people with chronic disease of the central nervous system, skin, gastrointestinal tract or eyes.

DOT Classification: Flammable Liquid, n.o.s. (Methanol), 3, UN1993, PG II

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

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