

# MATERIAL SAFETY DATA SHEET

Water Hardness Indicator

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Water Hardness Indicator

Product Code: 9780

Material Uses:

Manufacturer: Science Stuff  
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 7/2/2013

Print Date: 7/2/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	2
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"/>	2-Methoxyethanol 99% Reagent	CAS#: 109-86-4	Balance	V/V	25 ppm (80mg/m <sup>3</sup> ) OSHA TWA (SKIN)
<input type="checkbox"/>	Eriochrome Black T Reagent Grade	CAS# 1787-61-7	0.5%	W/V	None established

## 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 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: 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: Use flooding amounts of water. Avoid breathing toxic vapors

Fire / Explosion Hazards: Vapor may travel considerable distance to

Water Hardness Indicator

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**

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 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

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	-121°F (-49°C)	Percent Volatile by Volume:	>99
Boiling Point:	255°F (124°C)	Evaporation Rate	0.5
Vapor Pressure:	6 mm Hg @ 20° C	Evaporation Standard	Butylacetate =1
Vapor Density:	26	Auto Ignition Temp	Information not available
Solubility in Water:	Miscible	Lower Flamm. Limit in Air	2.3%
Appearance /Odors:	Clear liquid with mild pleasant odor	Upper Flamm. Limit in Air	24.5%
Flash Point:	102F (39C)		
Specific Gravity:	0.97		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	May form peroxides on exposure to air
Materials to Avoid:	Caustics, Strong oxidizers, air
Hazardous Decomposition Products:	Toxic oxides of Carbon
Hazardous polymerization:	Not known to occur
Conditions to Avoid:	None known

Water Hardness Indicator

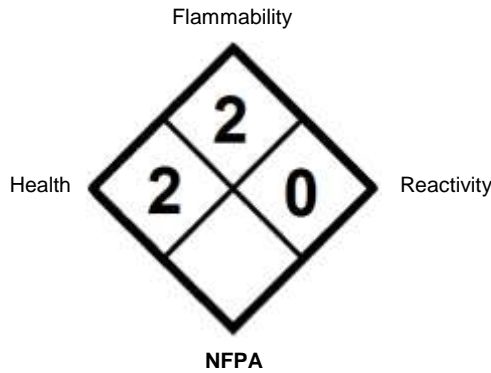
<b>SECTION 11</b>	<b>Toxicological Information</b>
<b>SECTION 12</b>	<b>Ecological Information</b>
<b>SECTION 13</b>	<b>Disposal Considerations</b>
<b>SECTION 14</b>	<b>Transport Information</b>

DOT Classification: UN1993, Flammable Liquids, n.o.s. (Ethylene Glycol Monomethyl Ether), 3, PG III

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

<b>SECTION 15</b>	<b>Regulatory Information</b>
<b>SECTION 16</b>	<b>Additional Information</b>

DANGER! Material may be harmful by inhalation, ingestion or if absorbed through the skin. May cause headache, drowsiness, personality changes, disorientation, disturbed vision, possible death. May cause liver damage. Persons with preexisting eye, skin or mucous membrane disorders may be more susceptible.



Revisions

0.2

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.