

# MATERIAL SAFETY DATA SHEET

Combined Color Reagent

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Combined Color Reagent

Product Code: 2169

Material Uses:

Manufacturer: Science Stuff  
1104 Newport Ave  
  
Austin, TX 78753  
(512) 837-6020

Entry Date : 5/30/2013

Print Date: 5/30/2013

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

Health:	3
Flammability:	0
Reactivity:	0
<b>Hazard Rating:</b>	
Least	Slight
0	1
Moderate	High
2	3
Extreme	4
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 type="checkbox"/>	Ferric Nitrate	CAS# 7782-61-8	3.03%	W/V	OSHA TWA 1mg(Fe)/mf
<input checked="" type="checkbox"/>	Mercuric Thiocyanate (Mercuric Sulfocyanate)	CAS# 592-85-8	0.063%	W/V	ACGIH TLV-TWA 0.05 MG (Hg)/M3 (SKIN)
<input checked="" type="checkbox"/>	Methanol (Methyl Alcohol)	CAS# 67-56-1	15%	V/V	OSHA TWA 200 ppm, ACGIH STEL 250 ppm
<input checked="" type="checkbox"/>	Nitric Acid	CAS# 7697-37-2	0.5%	V/V	OSHA TWA 2 ppm (5mg/mf), STEL 4 ppm (10mg/mf)
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	VV/	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: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

## Combined Color Reagent

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: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: Material will burn in a fire.

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 place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	not available	Percent Volatile by Volume:	~90%
Boiling Point:	not available	Evaporation Rate	not available
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear brown liquid with methanol odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not available		
Specific Gravity:	not available		

### SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid contact with heat, sparks, flames, or

Combined Color Reagent

Materials to Avoid: other sources of ignition.  
 Strong bases

Hazardous Decomposition Products: Mercury compounds, oxides of carbon, and nitrogen

Hazardous polymerization: not expected to occur

Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: Toxic Liquid n.o.s. (Mercuric Thiocyanate),  
 6.1, UN3287, PG III

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 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. **Corrosive! Oxidizer! Poison!** Acute effects of exposure: May cause: severe burns to skin, eyes, respiratory tract, GI tract; deep tissue burns and ulceration; blindness. Chronic: Dermatitis; eye damage or blindness. Target organs: Mucous membranes, respiratory system, eyes, skin; systemic poison.

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.