

MATERIAL SAFETY DATA SHEET

Karl Fischer Reagent

SECTION 1 . Product and Company Identification

Product Name and Synonym: Karl Fischer Reagent
Product Code: K3000
Material Uses:
Manufacturer: Science Stuff
1104 Newport Ave
Austin, TX 78753
(512) 837-6020
Entry Date : 6/7/2013
Print Date: 6/7/2013
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	3
Reactivity:	1

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Harmful if swallowed.

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	52.25%	V/V	25 ppm (80mg/mf) OSHA TWA (SKIN)
<input type="checkbox"/>	Iodine	CAS# 7553-56-2	14.55%	W/V	OSHA PEL (C) 0.1 ppm (1 mg/mf)
<input checked="" type="checkbox"/>	Pyridine	CAS# 110-86-1	25.4%	V/V	OSHA TWA 5 ppm (15 mg/mf)
<input type="checkbox"/>	Sulfur Dioxide Gas	CAS# 7446-09-5	7.8%	W/V	OSHA TWA 2 ppm, STEL 5 ppm

SECTION 4 FIRST AID MEASURES

Harmful if swallowed.

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

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SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, dry chemical, carbon dioxide, alcohol resistant foam

Fire / Explosion Hazards: Fire possible at elevated temp. Dust in sufficient quantities can be an explosion hazard.

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

Wear protective clothing. 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

Wash thoroughly after handling. 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: Solvent resistant gloves as neoprene or nitrile

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	>99
Boiling Point:	Information not available	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Dark brown liquid with disagreeable odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Information not available		
Specific Gravity:	0.93		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: High temperatures, ignition sources, incompatible materials

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Materials to Avoid: water, organic materials, strong acids, bases, metals, halogenes
Hazardous Decomposition Products: Oxides of carbon and nitrogen, hydrogen iodide
Hazardous polymerization: Not known 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: Flammable liquid n.o.s. (Ethylene glycol monomethyl ether, Pyridine), 3, UN1993, 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

Ingredients in this solution have been shown to cause birth defects. Target organs: Kidneys, liver, CNS. Eye contact may cause eye burns, ingestion may cause intestinal tract burns, kidney and liver damage. May cause CNS depression, headache, dizziness, vomiting and drowsiness. Chronic exposure to chemicals in this solution have been associated with various neurotoxic effects, including permanent brain and nervous system damage. Prolonged or repeated skin contact may cause sensitization, dermatitis and liver or kidney damage. Inhalation may cause irritation of the respiratory tract with burning in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

Flammability

Health

Reactivity

Revisions

NFPA

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.