

MATERIAL SAFETY DATA SHEET

Barium Standard 1,000 mg/L (ppm)

SECTION 1 . Product and Company Identification

Product Name and Synonym: Barium Standard 1,000 mg/L (ppm)

Product Code: 0950

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 5/24/2013

Print Date: 5/24/2013

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

| | |
|---------------|---|
| Health: | 2 |
| Flammability: | 0 |
| Reactivity: | 0 |

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

SECTION 2 HAZARD IDENTIFICATION

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. 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"/> | Barium Nitrate | CAS# 10022-31-8 | <1% | W/W | OSHA PEL 0.5 mg/mf as Ba |
| <input checked="" type="checkbox"/> | Nitric Acid | CAS# 7697-37-2 | 3 - 3.5% | W/W | OSHA TWA 2 ppm (5mg/mf), STEL 4 ppm (10mg/mf) |
| <input type="checkbox"/> | Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance | W/W | None Established |

SECTION 4 FIRST AID MEASURES

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. 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.

Barium Standard 1,000 mg/L (ppm)

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards: None Known.
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. Store between 15 and 25° C.

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: | ~0° C | Percent Volatile by Volume: | >95% |
| Boiling Point: | ~100° C | Evaporation Rate | 0.36 |
| Vapor Pressure: | not available | Evaporation Standard | Butylacetate =1 |
| Vapor Density: | not available | Auto Ignition Temp | Not applicable |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | Not applicable |
| Appearance /Odors: | Clear liquid, odorless | Upper Flamm. Limit in Air | Not applicable |
| Flash Point: | not flammable | | |
| Specific Gravity: | 1.013 | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Temperature extremes
Materials to Avoid: none known
Hazardous Decomposition Products: Barium compounds, Nitric oxides
Hazardous polymerization: not expected to occur

Barium Standard 1,000 mg/L (ppm)

Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Corrosive liquids, acidic, inorganic, n.o.s.
(nitric acid), 8, UN3264, 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

May be toxic by ingestion. If ingested, do not induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately. May be harmful if inhaled or ingested. May cause respiratory tract, eye and skin burns.

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.