

# MATERIAL SAFETY DATA SHEET

Barium Chloride 10% Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Barium Chloride 10% Solution

Product Code: 285-07

Material Uses:

Manufacturer:

OFI Testing Equipment, Inc.  
11302 Steeplecrest Drive  
Houston, TX 77065 USA  
Phone: (713) 880-9885  
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 7/31/2010

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 be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview: Danger! May Be Fatal If Swallowed. Harmful If Inhaled. May Cause Irritation To Skin, Eyes, And Respiratory Tract. Affects Heart, Respiratory System, And Central Nervous System.

Inhalation: Irritates the Respiratory Tract. May Produce Sore Throat, Coughing and Labored Breathing. Other Symptoms may Parallel Ingestion.

Ingestion: Toxic! May Cause Severe Gastroenteritis, Including Abdominal Pain, Vomiting and Diarrhea. May Cause Tremors, Faintness, Paralysis of Arms and Legs, and Slow or Irregular Heartbeat. Severe Cases may Produce Collapse and Death on Respiratory Failure. Estimated Lethal Dose in Humans: 1 gram of Barium Chloride.

Skin: May Cause Irritation with Redness and Pain.

Eye Contact: May Cause Irritation, Redness, Pain, or Blurred Vision.

Chronic Exposure: No Information Found.

Aggravated by Exposure: Persons with Pre-Existing Skin Disorders or Impaired Respiratory Function may be More Susceptible to the Effects of the Substance.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Barium Chloride Dihydrate	CAS# 10326-27-9	10%	W/V	OSHA PEL 0.89 mg/m <sup>3</sup>
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

## SECTION 4 FIRST AID MEASURES

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash

## Barium Chloride 10% Solution

thoroughly after handling.

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 swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: None

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.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer!

### SECTION 7 HANDLING AND STORAGE

Wash thoroughly after handling. Store in a cool dry ventilated storage area. Keep out of direct sunlight and away from heat, water and incompatible materials. Remove contaminated clothes and wash before reuse. Use with adequate ventilation.

### 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: Use safe laboratory handling procedures.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C (32° F)	Percent Volatile by Volume:	90
Boiling Point:	~ 100° C	Evaporation Rate	Information not

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	(212° F)		available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Information not available
Appearance /Odors:	Clear water white to slight haze/ None	Upper Flamm. Limit in Air	Information not available
Flash Point:	Not Flammable		
Specific Gravity:	1.0 - 1.092		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Keep away from intense heat
Materials to Avoid:	Bromine trifluoride; 2-furan percarboxylic acid
Hazardous Decomposition Products:	Barium Compounds
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

**SECTION 12 Ecological Information**

Environmental Fate: This Material is Expected to Significantly Bioaccumulate.

Environmental Toxicity: No information found.

**SECTION 13 Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**SECTION 14 Transport Information**

DOT Classification: Toxic liquid inorganic, n.o.s. (Barium Chloride), 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**

Chemical Inventory Status –  
Part 1:Ingredient  
Barium Chloride (10361-37-2)  
TSCA Yes  
EC Yes  
Japan YES  
Australia Yes

## Barium Chloride 10% Solution

Chemical Inventory Status –  
Part 2:Ingredient  
Barium Chloride (10361-37-2)  
Korea Yes  
DSL Yes  
NDSL No  
Phil. Yes

Federal, State & International Regulations –  
Part 1: Ingredient.  
Barium Chloride (10361-37-2)  
RQ No  
TPQ No  
List NO  
Chemical Catg BARIUM COMPO

Federal, State &  
International Regulations –  
Part 2:Ingredient  
Barium Chloride (10361-37-2)  
CERCLA NO  
261.33 No  
8(d) No

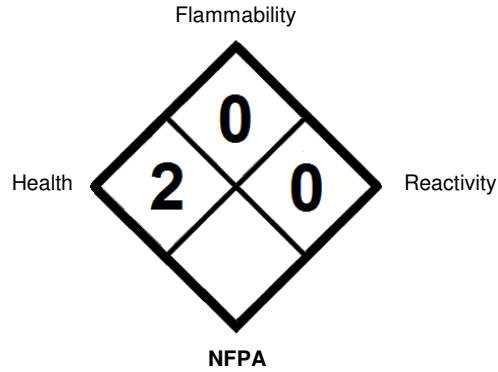
Chemical Weapons Convention: No  
TSCA 12 (b):No  
CDTA:No PURE/SOLID  
SARA 311/312: Acute:YES  
Chronic: No  
Fire: No  
Pressure: No  
Reactivity: No  
Australian Hazchem Code: 2Z  
Poison Schedule:S6

### SECTION 16

#### Additional Information

Toxic by ingestion. Ingestion may cause severe abdominal pain, violent purging with bloody stool, confusion, paralysis, First aid: have victim drink one tablespoon of epsom salts dissolved in water. If victim is not vomiting, induce using syrup of ipecac, or stick finger down throat. For eye contact, flush with plenty of water for 15 minutes, seek medical aid. Estimated lethal dose in humans: 1 gram barium chloride.

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Revisions

	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

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