

MATERIAL SAFETY DATA SHEET

Sulfate Indicator Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Sulfate Indicator Solution

Product Code: 255-04

Material Uses:

Manufacturer:

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

Entry Date : 5/11/2010

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 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.

Emergency Overview: Ingestion may Cause Gastrointestinal Disturbances. May Cause Eye Irritation, Redness and Pain.

Inhalation: Not Expected to Be a Health Hazard.

Ingestion: Large Oral Doses may Cause Gastrointestinal Disturbances.

Skin: No Adverse Effects Expected.

Eye Contact: May Cause Irritation, Redness and Pain.

Chronic Exposure: No Information Found.

Aggravated by Exposure: No Information Found.

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	9 - 10%	W/V	OSHA PEL 0.89 mg/m ³
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	1 - 6%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m ³
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	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,

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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: 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. Neutralize with a weak base.

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Contain and Recover Liquid when Possible.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Keep out of direct sunlight, away from heat, water and incompatible materials. Containers may be hazardous when empty.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

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:	Clear colorless liquid/no odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Information		

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not available

Specific Gravity: ~ 1

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid Light

Materials to Avoid: Halides, ammonia, phosphates, bases

Hazardous Decomposition Products: HCL Fumes, Chlorine

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No

SECTION 12 Ecological Information

Environmental Fate: When Released into the Soil, this Material is Not Expected to Biodegrade. When Released into the Soil, this Material may Leach into Groundwater.

SECTION 13 Disposal Considerations

Dilute with Water and Flush to Sewer if Local Ordinances Allow, Otherwise, Whatever Cannot be Saved for Recovery or Recycling should be Managed in an Appropriate and Approved Waste Disposal 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: Hydrochloric acid solution, 8, UN1789, 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)
 Hydrogen Chloride (7647-01-0)
 TSCA Yes YES
 EC Yes YES
 Japan YES YES
 Australia Yes YES

Chemical Inventory Status –
 Part 2:Ingredient
 Barium Chloride (10361-37-2)
 Hydrogen Chloride (7647-01-0)
 Korea Yes YES
 DSL Yes YES
 NDSL No NO
 Phil. Yes YES

Federal, State & International Regulations –
 Part 1: Ingredient.
 Barium Chloride (10361-37-2)
 Hydrogen Chloride (7647-01-0)
 RQ No 5000
 TPQ No 500

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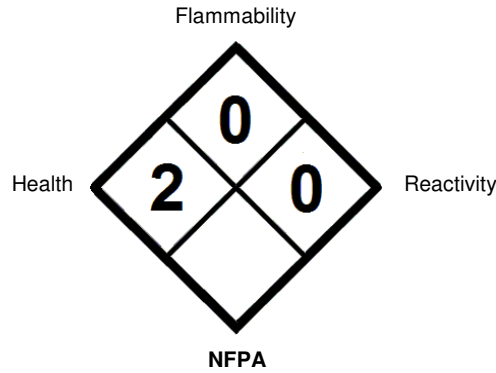
List NO YES
Chemical Catg: BARIUM COMP No

Federal, State &
International Regulations –
Part 2:Ingredient
Barium Chloride (10361-37-2)
Hydrogen Chloride (7647-01-0)
CERCLA NO 5000
261.33 No NO
8(d) No NO

Chemical Weapons Convention: No
TSCA 12 (b):No

SECTION 16 Additional Information

Overexposure symptoms: Corrosive effects.: Acute-Irritation possible to skin, eyes, lungs, mucous membranes, and GI tract. Chronic-none known. Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders may be more susceptible. May be Toxic by ingestion. Ingestion may cause severe abdominal pain, violent purging with bloody stool, confusion, paralysis, For eye contact, flush with plenty of water for 15 minutes, seek medical aid.



Revisions

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