

MATERIAL SAFETY DATA SHEET

Aluminum Chloride 0.1 Molar Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Aluminum Chloride 0.1 Molar Solution

Product Code: 290-03

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: 8/2/2010

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

Health:	1			
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: May Cause eye and skin burns. May cause severe respiratory tract irritation with possible burns.
May cause severe digestive tract irritation with possible burns. Water-Reactive.

Inhalation: Mists are Irritants to Respiratory Tract.

Ingestion: Swallowing may Cause Burns of the Mouth, Throat and Stomach.

Skin: Can be Corrosive to Skin. May Cause Irritation.

Eye Contact: May Cause Irritation to Eyes, and with Greater Exposure, Severe Burns with Possibly Blindness
Resulting. Sodium Azide: Causes Irritation, Redness, Pain, and Blurred Vision.

Chronic Exposure: Persons with Pre-Existing Skin Disorders may be Susceptible to these Solutions.

Aggravated by Exposure: Chronic Respiratory Disease, Pre-Existing Eye Problems and Skin Disease.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Aluminum Chloride Hexahydrate	CAS# 7784-13-6	2 - 3%	W/V	ACGIH TWA 2 mg (Al)/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 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.

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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.

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

Dispose of in a manner consistent with federal, state and local regulations.

Ventilate area of Leak or Spill. Keep Unnecessary and Unprotected People away from the area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth). Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. 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: Use safe laboratory handling procedures.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C (32° F)	Percent Volatile by Volume:	> 97
Boiling Point:	~ 100° C (212° F)	Evaporation Rate	Information not available

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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, colorless, odorless liquid	Upper Flamm. Limit in Air	Information not available
Flash Point:	Information not available		
Specific Gravity:	Information not available		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Heat
Materials to Avoid:	information not available
Hazardous Decomposition Products:	HCl fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11 Toxicological Information

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

SECTION 12 Ecological Information

Environmental Fate: No Information Found.

Environmental Toxicity: No Information Found.

SECTION 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14 Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

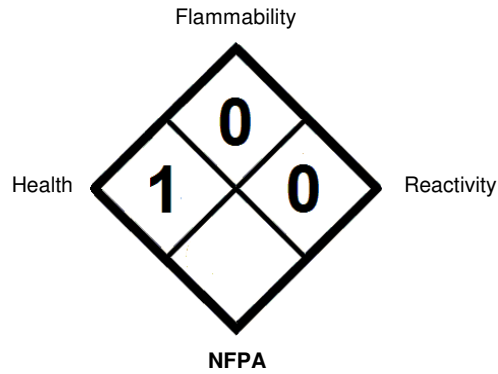
SECTION 15 Regulatory Information

CAS# 7784-13-6 is not listed on the TSCA inventory. It is for research and development use only.

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders are more susceptible. Acute: May cause irritation and pain to skin, eyes, lungs, and gastro-intestinal tract. Nausea, coughing. Chronic: Dermatitis.

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Revisions

	0	
8/2/2010	0.1	updated msds to 16 section from 10 section msds. STN

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