

MATERIAL SAFETY DATA SHEET

Ammonium Fluoride 10% Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Ammonium Fluoride 10% Solution

Product Code: 211-00

Material Uses:

Manufacturer:

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

Entry Date : 5/10/2010

Print Date: 7/30/2010

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

Health:	3			
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 fatal if inhaled, swallowed or absorbed thru the skin. Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

Emergency Overview: Danger! May be fatal if swallowed or inhaled. Early symptoms include nausea, vomiting, diarrhea, and weakness. Later effects include central nervous system effects, cardiovascular effects, and death. Affects respiratory system, heart, skeleton, circulatory system, central nervous system and kidneys. Causes irritation and burns to skin, eyes and respiratory tract. Irritation and burn effects may be delayed. Harmful if absorbed through skin.

Inhalation: May Cause Irritation and Burns to the Respiratory Tract; Symptoms May Include Coughing, Sore Throat, and Labored Breathing. Irritation and Burning Effects May Not Appear Immediately.

Ingestion: May cause Salivation, Nausea, Vomiting, Diarrhea, and Abdominal Pain, Followed by Weakness, Tremors, Shallow Respiration, Cardopedal Spasm, Convulsions, and Coma. May Cause Brain and Kidney Damage. Death May Caused by Respiratory Paralysis. Affects Heart and Circulatory System.

Skin: Causes Severe Irritation and Possibly Burns to the Skin. May be Absorbed through the Skin. Effects may not Appear Immediately.

Eye Contact: Causes Irritation. May be Extremely Irritating with Possible Burns to Eye Tissue and Permanent Eye Damage may Result.

Chronic Exposure: Chronic Exposure may Cause Mottling of Teeth and Bone Damage (osteosclerosis) and Fluorosis. Symptoms of Fluorosis Include Brittle Bones; Weight Loss, Anemia, Calcification of Ligaments, General ill Health and Joint Stiffness.

Aggravated by Exposure: Populations that Appear to be at increased Risk from the Effects of Fluoride are Individuals that Suffer from Diabetes insipidus or some forms of Renal Impairment.

SECTION 3 MIXTURE COMPONENTS

Ammonium Fluoride 10% Solution

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Ammonium Fluoride	CAS# 12125-01-8	~10%	W/V	None established
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	90%	V/V	None Established

SECTION 4 FIRST AID MEASURES

May be fatal if inhaled, swallowed or absorbed thru the skin. Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. 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: 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 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.

Spills: Ventilate area of Leak or Spill. Allow Only Qualified Personnel to Handle Spill. Clean-Up Personnel Require Protective Clothing and Respirator Protection from Vapors. Absorb Material with Paper Towel and Place in a Closed Contain for recovery or disposal Do Not Flush to Sewer! Decontaminate Liquid Resides in Spill Area with Sodium or Calcium Hypochlorite Solution. 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 place. Do not get in eyes, on skin, on clothing. 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

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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:	~ 90%
Boiling Point:	Information not available	Evaporation Rate	1
Vapor Pressure:	not available	Evaporation Standard	
Vapor Density:	not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Colorless, odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not flammable		
Specific Gravity:	Information not available		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	see incompatibilities
Materials to Avoid:	Potassium chlorate, sodium nitrate, chlorine trifluoride and calcium solution, corrodes glass.
Hazardous Decomposition Products:	Emits Hydrogen fluoride, NO and ammonia.
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:This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

SECTION 13 Disposal Considerations

What ever cannot be Saved for Recovery or Recycling should be Managed in an Appropriate and Approved Waste Facility. 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. (Ammonium Fluoride), 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

Ammonium Fluoride 10% Solution

Ammonium Fluoride (12125-01-8)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Ammonium Fluoride (12125-01-8)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Ammonium Fluoride (12125-01-8)
RQ No
TPQ No
List NO
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
Ammonium Fluoride (12125-01-8)
CERCLA 100
261.33 No
8(d) No

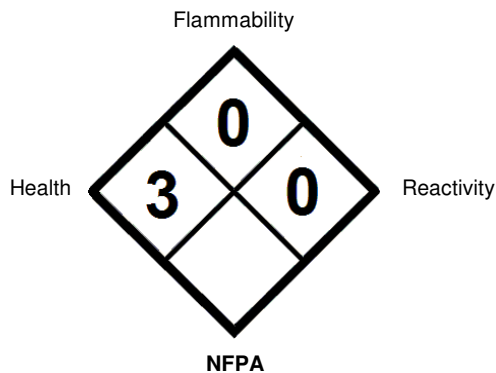
Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:No PURE/LIQUID
SARA 311/312: Acute: YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: 2X
Poison Schedule: None allocated

SECTION 16

Additional Information

Danger! May be fatal if swallowed or inhaled. Early symptoms include nausea, vomiting, diarrhea and weakness. Later effects include central nervous system effects, cardiovascular effects and death. Affects respiratory system, heart, skeleton, circulatory system, central nervous system and kidneys. Causes severe irritation to tissues of the mucous membranes, upper respiratory tract, eyes and skin. Persons with pre-existing eye, skin or respiratory conditions may be more susceptible. Ingestion may cause tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Death may be caused by respiratory paralysis. Affects heard and circulatory system.

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Revisions

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