



1048 La Mirada Court, Vista, CA 92081
ph: (760)639-4400, (800)914-9072, fax: (760)639-4439
Internet: <http://www.PWTInc.com>, E-mail:
Support@PWTInc.com

MSDS

Material Safety Data Sheet
December 19, 2007

Section 01: Chemical Product Identification

Domestic Trade Name: Opticlean S™
Export Trade Name: Opticlean S™

Section 02: Information on Hazardous Ingredients

Dot Shipping Name: Ammonium hydrogen difluoride, solid
Dot Hazard Class: 8
PWT Product Name: Opticlean S™

Section 03: Hazards Identification:

Health Hazards:

Primary Route of Exposure: Skin contact, eye contact, and inhalation
Inhalation: Exposure to spray may cause irritation to the mucous membranes and respiratory system
Skin Contact: Exposure to skin can cause irritation
Eye contact: Material can cause irritation to eyes
Ingestion: Material is not harmful if accidentally ingested

Medical Conditions Aggravated by Exposure: None known

Section 04: First Aid Measures

First Aid For Ingestion: General Precautionary Measures Suggest Inducing Vomiting Immediately by Giving Two Full Glasses of Water and Sticking Finger Down Throat. Never Give Anything by Mouth to an Unconscious Person. Call a Physician.
First Aid Inhalation: None Required
First Aid Eye Contact: For all Foreign Materials, Immediately Flush Eyes with Plenty of Water.
First Aid Skin Contact: For all Foreign Materials, Wash After Exposure.

Section 05: Fire Fighting Measures

Autoignition Temp: N/A
Flammable Limits: LEL (Lower Explosive Limits) N/A
Fire Fighting Media: Use Media Appropriate to Primary Cause of Fire
Special Fire Fighting Procedures: None Known
Fire/Explosion Hazards: Under Dust Loading Conditions in Excess of 25,000 mg/M³, May Present an Explosion Hazard
NFPA Hazard Codes - Health/Flammability/Reactivity; 1,0,0
HMIS Hazard Codes - Health/Flammability/Reactivity; 1,0,0

Section 06: Accidental Release Measures

Spill/Leak Clean-Up Procedures: Scoop Up. Avoid Dusting. Dispose of with Solid Waste According to Federal, State, and Local Regulations. Flush Spill with Water.

***CAUTION:** Floor may be Slippery

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Personal protection:

Wear protective clothing during spill clean up and deactivation of the material. Protective clothing including chemical splash goggles, Latex, nitrile, or buytl rubber full-length gloves, rubber apron made of nitrile or buytl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of material. If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin areas with soap and water. See section 4, First Aid Measures, for further information.

Section 07: Handling and Storage

Precautionary Measures:

Avoid Breathing Spray. See Section 8, Exposure Control/Personal Protection, prior to handling.

Storage Conditions:

The maximum storage temperature for this material is 55°C/131°F. The minimum storage temperature for this material is 0°C/32°F. Store in a well ventilated area. Do not store this material in containers made of steel.

Section 08: Exposure Control/Personal Protection

Ventilation: Use with Normal Adequate Ventilation

Respiratory Protection: Dust Masks Where Dusting cannot be Avoided

Eye Protection: Safety Glasses

Skin Protection: Use OSHA Approved Neoprene Gloves, Boots, and Apron

Personal Hygiene: Observe Ordinary Measures of Personal Hygiene

Section 09: Physical and Chemical Properties

Boiling Point: N/A

Vapor Pressure: Not Volatile

Vapor Density: Not Volatile

Water Solubility: Complete

Melting/Freezing Point: N/A

Appearance: White Powder

Specific Gravity: N/A

Percentage Volatile: 1.00% Water - Max

Evaporation Rate: Not Volatile

pH of Solution: 3-7 (5% Solution)

Odor: None

Section 10: Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not Occur

Conditions to Avoid: None Known

Incompatible Materials: Strong Oxidizing or Reducing Agents

Hazardous Decomposition Products: None Known

Section 11: Toxicological Information

Acute Toxicity:

Mutagenicity: No data

Oral Toxicity: No data



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TECHNOLOGIES, Inc.**

High-Performance Reverse Osmosis Chemicals

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Dermal Toxicity: Not absorbed topically
Inhalation Toxicity: No data
Skin Irritation: No data
Sensitizer: Not a sensitizer

Section 12: Ecological Information

Environmental Toxicity:

No data

Section 13: Disposal

Incinerate liquid and contaminated solids in accordance with Federal, State, and local regulations and permits.

Section 14: Transport Information

Dot Shipping Name: Ammonium hydrogen difluoride, solid
Dot Hazard Class: 8
PG II
Hazardous Ingredients: Ammonium hydrogen fluoride
UN Number: UN1727
ERG 154

Export Data

Export Shipping Name: Ammonium hydrogen difluoride, solid
Export Hazard Class: 8
PG II
Hazardous Ingredients: Ammonium hydrogen fluoride
UN Number: UN1727
ERG 154

Section 15: Regulatory Information

SARA Section 313 Notification (40CFR 372)

This Product Does Not Contain Toxic Chemicals Subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Section 16: Other Information

HMIS Hazard Codes – Health/Flammability/Reactivity; 1,0,0
NFPA Hazard Codes - Health/Flammability/Reactivity; 1,0,0



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**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

**DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

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