

**Safety Data Sheet**

**CONTACT**

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**SECTION 1: Identification**

**Product identifier**

Product name CONTACT  
Product number 6236

**Supplier's details**

Name Ardex Labs.  
Address 2050 Byberry Rd  
Philadelphia, PA 19116  
United States of America

Telephone 2156980500  
email info@ardexlabs.com

**Emergency phone number(s)**

800-424-9300  
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE  
NUMBER

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**SECTION 2: Hazard identification**

**Classification of the substance or mixture**

**GHS classification in accordance with OSHA (29 CFR 1910.1200)**

- Acute toxicity, dermal (chapter 3.1), Cat. 3
- Acute toxicity, oral (chapter 3.1), Cat. 3
- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1B

**GHS label elements, including precautionary statements**

**Pictogram**



**Signal word**

**Danger**

**Hazard statement(s)**

H301 Toxic if swallowed  
H311 Toxic in contact with skin  
H314 Causes severe skin burns and eye damage

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H318 Causes serious eye damage

### Precautionary statement(s)

#### Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands and exposed skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water/shower  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor/...  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P363 Wash contaminated clothing before reuse.

#### Storage

P405 Store locked up.

#### Disposal

P501 Dispose of contents/container to local, state, and federal regulations

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

Component	Concentration
<b>Phosphoric acid liquid (CAS no.: 7664-38-2; EC no.: 231-633-2; Index no.: 015-011-00-6)</b>	<b>&gt; 0 - &lt; 10 % (Weight)</b>
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Corrosive to metals (chapter 2.16), Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage.	
<b>ETHYLENE GLYCOL MONOBUTYL ETHER (CAS no.: 111-76-2; EC no.: 203-905-0; Index no.: 603-014-00-0)</b>	<b>&gt; 0 - &lt; 10 % (Weight)</b>
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Flammable liquids (chapter 2.6), Cat. 4; Acute toxicity, dermal (chapter 3.1), Cat. 4; Skin corrosion/irritation (chapter 3.2), Cat. 2; Eye damage/irritation (chapter 3.3), Cat. 2A; Acute toxicity, inhalation (chapter 3.1), Cat. 4. HAZARDS: No data available.	
<b>Hydrofluoric acid (CAS no.: 7664-39-3; EC no.: 231-634-8; Index no.: 009-003-00-1)</b>	<b>&gt; 0 - &lt; 5 % (Weight)</b>
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1A; Acute toxicity, dermal (chapter 3.1), Cat. 1; Acute toxicity, inhalation (chapter 3.1), Cat. 2; Acute toxicity, oral (chapter 3.1), Cat. 2; Eye damage/irritation (chapter 3.3), Cat. 1. HAZARDS: H300 - Fatal if swallowed; H310 - Fatal in contact with skin; H314 - Causes severe skin burns and eye damage; H330 - Fatal if inhaled.	
<b>Ammonium bifluoride (CAS no.: 1341-49-7; EC no.: 215-676-4; Index no.: 009-009-00-4)</b>	<b>&gt; 0 - &lt; 5 % (Weight)</b>
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Eye damage/irritation (chapter 3.3), Cat. 1; Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Acute toxicity, dermal (chapter 3.1), Cat. 3. HAZARDS: H301 - Toxic if swallowed; H314 - Causes severe skin burns and eye damage.	

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice Call a physician immediately. Take victim immediately to hospital. Always have a solution of 0.13% zephiran chloride solution available. Always have

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1% aqueous calcium gluconate solution available. Always have analgesic eye wash (oxybuprocaine) available.

#### If inhaled

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Oxygen or artificial respiration if needed. Victim to lie down in the recovery position, cover and keep him warm. Call a physician immediately. Take victim immediately to hospital. Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air.

#### In case of skin contact

Call a physician immediately. Take victim immediately to hospital. Take off contaminated clothing and shoes immediately. Wash off with plenty of water. First treatment with calcium gluconate paste. Rinse with lukewarm running water. Please make sure that hospital staff is aware of the unique characteristics of injuries caused by HF exposures and the fact that the systemic toxic effects of the exposure will require prompt serum monitoring of fluorides, calcium, magnesium and sodium, and calcium replacement by infusion.

Immediately flush the affected area with water for at least 15 minutes. Then immediately soak the affected area with 0.13% zephiran chloride solution by immersion or by wetted toweling. DO NOT use zephiran chloride in or near the eyes.

#### In case of eye contact

Immediate medical attention is required. Take victim immediately to hospital. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

#### If swallowed

If swallowed give 2-3 glasses of water if victim is conscious and alert. Give to drink 1% aqueous calcium gluconate solution. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

#### Personal protective equipment for first-aid responders

See Section 8 for exposure and PPE recommendations  
Pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage.  
Possible inflammation of the respiratory tract.  
Caustic burns/corrosion of the skin.

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Causes serious eye damage.  
Nausea. Vomiting.  
Affection/discolouration of the teeth.

In case of inhalation

Symptoms

- Breathing difficulties
- sore throat
- Nose bleeding

Effects

- Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough.
- Aspiration may cause pulmonary edema and pneumonitis.
- risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia

Repeated or prolonged exposure

- chronic bronchitis

In case of skin contact

Symptoms

- Irritation
- Redness
- Swelling of tissue
- Burn

Effects

- Causes severe burns.
- Risk of shock.
- Risk of hypocalcemia following the extent of the lesions.

In case of eye contact

Symptoms

- Lachrymation
- Redness
- Swelling of tissue
- Burn

Effects

- May cause permanent eye injury.
- May cause blindness.

In case of ingestion

Symptoms

- Nausea
- Bloody vomiting
- Abdominal pain
- Diarrhea
- Cough
- Severe shortness of breath

Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Risk of throat (o)edema and suffocation.
- Risk of chemical pneumonitis from product inhalation.
- risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia
- Risk of convulsions, loss of consciousness, deep coma and cardiopulmonary arrest.

In case of skin contact

Symptoms

- Irritation
- Redness
- Swelling of tissue
- Burn

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### Effects

- Causes severe burns.
- Risk of shock.
- Risk of hypocalcemia following the extent of the lesions.

In case of eye contact

### Symptoms

- Lachrymation
- Redness
- Swelling of tissue
- Burn

### Effects

- May cause permanent eye injury.
- May cause blindness.

In case of ingestion

### Symptoms

- Nausea
- Bloody vomiting
- Abdominal pain
- Diarrhea
- Cough
- Severe shortness of breath

### Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Risk of throat (o)edema and suffocation.
- Risk of chemical pneumonitis from product inhalation.
- risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia
- Risk of convulsions, loss of consciousness, deep coma and cardiopulmonary arrest.

### **Indication of immediate medical attention and special treatment needed, if necessary**

Please make sure that hospital staff is aware of the unique characteristics of injuries caused by HF exposures and the fact that the systemic toxic effects of the exposure will require prompt serum monitoring of fluorides, calcium, magnesium and sodium, and calcium replacement by infusion. Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. HF-Antidote Gel from IPS Healthcare is recommended as treatment for injuries from hydrofluoric acid.

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Do not use a heavy water stream.

### **Specific hazards arising from the chemical**

Hazardous combustion products:

Corrosive vapours.

Gives off hydrogen by reaction with metals.

Ammonia

Oxides of phosphorus.

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### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
Suppress (knock down) gases/vapors/mists with a water spray jet.

### Further information

Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Keep unauthorized personnel away. Dike spill using absorbent or impervious materials such as earth, sand or clay. Dike or retain dilution water or water from firefighting for later disposal.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Runoff from fire control or dilution water may cause pollution

### Methods and materials for containment and cleaning up

Exercise caution during neutralization as considerable heat may be generated. Neutralize spill area with soda ash, sodium bicarbonate or lime. Flush neutralized spill with copious amounts of water. Keep in properly labeled containers. Keep in suitable, closed containers for disposal.

### Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. This product reacts violently with bases liberating heat and causing spattering.

### Conditions for safe storage, including any incompatibilities

Store in a dry, well-ventilated place. Store locked up. Keep away from incompatible materials. Ventilate enclosed areas.

Do not store in direct sunlight

Suitable storage containers:

Steel drum  
Coated steels.  
Plastic drum  
Polyethylene

Incompatible materials:

metals. cyanides. Strong bases. Strong acids.

### Specific end use(s)

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Wheel cleaner

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### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### CAS: 111-76-2

2-Butoxyethanol

Cal/OSHA: 20 ppm PEL inhalation; NIOSH: 5 ppm REL inhalation; OSHA: 240 mg/m<sup>3</sup> PEL inhalation; 50 ppm PEL inhalation

ETHYLENE GLYCOL MONOBUTYL ETHER

OSHA: dermal

##### CAS: 1341-49-7 (EC: 215-676-4)

Ammonium bifluoride

ACGIH: 2.5mg/m<sup>3</sup> TWA

##### CAS: 7664-38-2

Phosphoric acid

Cal/OSHA: 1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup> PEL inhalation; NIOSH: 1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup> REL inhalation; OSHA: 1 mg/m<sup>3</sup> PEL inhalation

Phosphoric acid liquid

ACGIH: 3mg/m<sup>3</sup> STEL

##### CAS: 7664-39-3 (EC: 231-634-8)

Hydrofluoric acid (48%)

30ppm; ACGIH: 3mg/l Fluoride

Urine

End of shift (As soon as possible after exposure

ceases) BEI - urine; 2mg/l Fluoride Urine Prior to shift (16 hours after exposure ceases) BEI - urine; 2ppm C; 0.5ppm TWA; NIOSH: 6ppm. 5mg/m<sup>3</sup> C; 3ppm 2.5mg/m<sup>3</sup> TWA

#### Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery.

Apply technical measures to comply with the occupational exposure limits.

Ensure that eyewash stations and safety showers are close to the workstation location.

- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- May not get in touch with:
  - Leather
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Pictograms



##### Eye/face protection

Chemical resistant goggles must be worn.

If splashes are likely to occur, wear:

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- Face-shield

### Skin protection

Heat insulating gloves

Impervious gloves

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

### Body protection

Complete suit protecting against chemicals

- Boots

- Do not wear leather shoes.

### Respiratory protection

Use only respiratory protection that conforms to international/ national standards.

- Use NIOSH approved respiratory protection.

- In the case of dust or aerosol formation use respirator with an approved filter.

- Respirator with a full face mask.

- Self-contained breathing apparatus in confined spaces/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.

- Use respirator when performing operations involving potential exposure to vapor of the product.

### Environmental exposure controls

Do not allow product to enter environment.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	DARK, THIN LIQUID
Odor	Sharp
Odor threshold	No data available.
pH	2.5
Melting point/freezing point	-20 DEG. C (-1 DEG. F)
Initial boiling point and boiling range	105-110 DEG. C
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	17.1 (@20 C)
Vapor density	No data available.
Relative density	1.05-1.20 (@20 DEG. C)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Reacts violently with water, risk of explosion. Only dilute by adding material to water, never water to material.

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### Chemical stability

Stable when stored as directed.

### Possibility of hazardous reactions

Corrosive in contact with metals, Gives off hydrogen by reaction with metals.  
Hazardous Polymerization will not occur

### Conditions to avoid

Direct sunlight, temperatures cooler than 40F and 120F.

### Incompatible materials

metals. cyanides. Strong bases. Water  
glass, metals, alkali metals

### Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.  
Hydrogen chloride.  
Hydrogen fluoride, Ammonia  
Oxides of phosphorus.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

ETHYLENE GLYCOL MONOBUTYL ETHER  
LD50 Oral - Guinea pig - 1400 mg/kg  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
LD50 Oral - Rat - 1300 mg/kg  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
LD50 Skin - Guinea pig - >2000 mg/kg  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
LC50 Inhalation - Guinea pig - >3.1 mg/l - 1hr  
Result: No deaths occurred at this value  
Remarks: vapor  
Citation: DOW Chemical rev. date: 04/21/2015

Hydrofluoric acid (48%)  
LD100 Oral - Guinea pig - 80mg/kg  
Remarks: 2% solution

Hydrofluoric acid (48%)  
LC50 Inhalation - Rat - 2240-2340ppm - 1hr

Hydrofluoric acid (48%)  
LD10 Skin - Mouse - ca300 mg/kg

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Phosphoric acid liquid  
LD50 Oral - Rat - 1530mg/kg

Phosphoric acid liquid  
LD50 Skin/Dermal - Rabbit - 2740mg/kg

### **Skin corrosion/irritation**

Hydrofluoric acid (48%)

Result: Corrosive

Phosphoric acid liquid  
Skin - Rabbit - 595mg/kg - 24hrs  
Result: Severe irritation, irreversible, burns (corrosive)

### **Serious eye damage/irritation**

Hydrofluoric acid (48%)

Eyes - Rabbit

Result: Eye irritation

Phosphoric acid liquid  
Eye - Rabbit - 119mg/kg  
Result: Severe irritation, irreversible, burns (corrosive)

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No data available.

### **Reproductive toxicity**

Hydrofluoric acid (48%)

Result: Rat  
NOAEL parent: 10 - 14 mg/kg  
Rabbit  
NOAEL parent: 14 mg/kg  
not significant  
Developmental Toxicity

### **STOT-single exposure**

Phosphoric acid liquid  
Oral

Result: Causes corrosion, burns to mouth and esophagus, abdominal pain, chest pain, nausea, vomiting, diarrhea, seizures. Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

### **STOT-repeated exposure**

Hydrofluoric acid (48%)

Result: Inhalation Prolonged exposure - Rat

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Test substance: gas  
Target Organs: Cardio-vascular system, Nervous system  
observed effect  
Inhalation - Rat  
Target Organs: Respiratory system, Kidney, Liver, Testes  
observed effect  
gas

Phosphoric acid liquid  
Skin  
Result: Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Phosphoric acid liquid  
Inhalation  
Result: Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Phosphoric acid liquid  
Oral  
Result: Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Aspiration hazard**  
No data available.

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## SECTION 12: Ecological information

### Toxicity

ETHYLENE GLYCOL MONOBUTYL ETHER  
LC50 - Oncorhynchus mykiss (rainbow trout) - 1474 mg/l - 96hr  
Result: Acute Toxicity  
Remarks: OECD Test guideline 203  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
EC50 - Daphnia magna (water flea) - 1550 mg/l - 48hr  
Result: Acute Toxicity  
Remarks: OECD Test guideline 203  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
EbC50 - Pseudokirchneriella subcapitata (green algae) - 911 mg/l - 72hr  
Result: Acute Toxicity: Biomass  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
IC50 - Bacteria - >1000 mg/l  
Result: Acute Toxicity: Growth inhibition  
Citation: DOW Chemical rev. date: 04/21/2015

ETHYLENE GLYCOL MONOBUTYL ETHER  
NOEC - Danio rerio (zebra fish) - >100 mg/l - 21days  
Result: Chronic Toxicity  
Citation: DOW Chemical rev. date: 04/21/2015

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ETHYLENE GLYCOL MONOBUTYL ETHER  
NOEC - Daphnia magna (water flea) - >100 mg/l - 21days  
Result: Chronic Toxicity  
Citation: DOW Chemical rev. date: 04/21/2015

Hydrofluoric acid (48%)

Result: LC50 - 96 h : 51 mg/l - Fishes, Salmo gairdneri  
static test

Hydrofluoric acid (48%)

Result: EC50 - 48 h : 26 mg/l - Daphnia magna (Water flea)  
Fresh water  
EC50 - 96 h : 10.5 mg/l - Daphnia magna (Water flea)  
salt water

Hydrofluoric acid (48%)

Result: Chronic Toxicity to fish: NOEC: 4 mg/l - 21 Days - Oncorhynchus mykiss (rainbow trout)  
static test  
Fresh water

Hydrofluoric acid (48%)

Result: Chronic Toxicity to aquatic invertebrates.: NOEC: 8.9 mg/l - 21 Days - Daphnia magna (Water flea)  
static test  
Fresh water

Phosphoric acid liquid  
LC50 - Pisces - 138mg/l - 96hr  
Remarks: (pure substance)

Phosphoric acid liquid  
LC50 - Protozoa - 100-1000 - 96hr  
Remarks: (pure substance)

Phosphoric acid liquid  
TLM - Gambusia affinis - 138ppm - 24hr  
Remarks: (pure substance)

#### **Persistence and degradability**

No data available.

#### **Bioaccumulative potential**

No data available.

#### **Mobility in soil**

ETHYLENE GLYCOL MONOBUTYL ETHER

Result: Potential for mobility in soil is high (Koc between 50 and 150).  
Partition coefficient(Koc): 67 Estimated.  
Citation: DOW Chemical rev. date: 04/21/2015

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### Results of PBT and vPvB assessment

No data available.

### Other adverse effects

No data available.

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## SECTION 13: Disposal considerations

### Disposal of the product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### Disposal of contaminated packaging

Clean container with water.

The empty and clean containers are to be reused in conformity with regulations.

To avoid treatments, as far as possible, use dedicated containers.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Waste treatment

No data available.

### Sewage disposal

Do not dispose of product in sewers.

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## SECTION 14: Transport information

UN Number	2922
UN Proper Shipping Name	Corrosive liquids, toxic, n.o.s., (Containing Hydrochloric and Hydrofluoric Acid)
Transport hazard class(es)	8
Packing group	II

### Environmental hazards

Corrosive/Toxic

### Special precautions for user

May be reclassified as a CONSUMER COMMODITY ORM-D when shipped by ground in the US in containers not exceeding 38 ounces.

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Massachusetts Right To Know Components

Chemical name: Phosphoric acid

CAS number: 7664-38-2

#### New Jersey Right To Know Components

Common name: PHOSPHORIC ACID

CAS number: 7664-38-2

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### **CERCLA**

Phosphoric acid

CAS: 7664-38-2

Reportable Quantity: 5000lb final RQ

### **New Jersey Right To Know Components**

Common name: 2-BUTOXY ETHANOL

CAS number: 111-76-2

### **Pennsylvania Right To Know Components**

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

### **SARA 311/312 Hazards**

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2....Acute Health Hazard, Fire Hazard, Chronic Health Hazard

### **SARA 313 Components**

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

### **Toxic Substances Control Act (TSCA) Inventory**

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2.....Compliant

### **Massachusetts Right To Know Components**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

### **New Jersey Right To Know Components**

Common name: HYDROGEN FLUORIDE

CAS number: 7664-39-3

### **Pennsylvania Right To Know Components**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

### **SARA 311/312 Hazards**

Acute Health and Chronic Health: Hydrofluoric acid

### **SARA 313 Components**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

### **SARA 302 Components**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

Reportable Quantity: 100lbs

### **SARA 304 Components: Emergency Release Notification Reportable Quantity:**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

Reportable Quantity: 100lbs

### **CERCLA**

Chemical name: Hydrofluoric acid

CAS number: 7664-39-3

Reportable Quantity: 100lbs

### **Massachusetts Right To Know Components**

Chemical name: Ammonium bifluoride

CAS number: 1341-49-7

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#### **New Jersey Right To Know Components**

Common name: AMMONIUM BIFLUORIDE

CAS number: 1341-49-7

#### **Pennsylvania Right To Know Components**

Chemical name: Ammonium fluoride

CAS number: 1341-49-7

#### **Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Ammonium bifluoride - Hazardous Substance Reportable Quantity: 100lbs

#### **Clean Water Act**

This material, as supplied, contains one or more substances that are regulated under the clean water act:

Ammonium bifluoride - Reportable Quantity: 100lbs

#### **SARA 311/312 Hazards**

Ammonium bifluoride: Acute Health Hazard

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### SECTION 16: Other information

Revision Date:

06/24/2016

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

Ardex Laboratories, Inc. 2050 Byberry rd Philadelphia, PA 19116 T: 215-698-0500 [ardexlabs.com](http://ardexlabs.com)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012