

**MSDS - Material Safety Data Sheet****Product Name: CLAY-OUT!****MSDS No.: 1311****I. Basic Information:**

**Manufacturer:** U.N.X. INCORPORATED  
**Address:** 707 ARLINGTON BLVD.  
**City, ST Zip:** GREENVILLE, NC 27858  
**Country:** USA

**Contact:** SINGLETON  
**Information Telephone Number:** 252-756-8616  
**Emergency Contact:** CHEMTEL  
**Emergency Telephone Number:** 800-255-3924  
**Emergency Restrictions:**

**Product Name:** CLAY-OUT!  
**MSDS No.:** 1311

**Issue Date:** 11/17/2011  
**Supersedes Date:** Not Available

**II. Hazards Identification:****EMERGENCY OVERVIEW**

INHALATION, CAN IRRITATE, NOSE, THROAT, AND LUNGS.  
 SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION, WITH LONG TERM EXPOSURE.  
 INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

**OSHA Regulatory Status**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

**Potential Health Effects****Route(s) of Entry:**

INHALATION, CAN IRRITATE, NOSE, THROAT, AND LUNGS.  
 SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION, WITH LONG TERM EXPOSURE.  
 INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

**Health Hazards (Acute and Chronic):**

SKIN, EYES, INHALATION

**Signs and Symptoms:**

PRODUCT, CAN BE DESTRUCTIVE TO TISSUE. SKIN BURNS CAN BE PRODUCED. CONTACT WITH EYES CAN CAUSE PERMANENT DAMAGE.

**Medical Conditions Generally Aggravated by Exposure:**

NONE KNOWN

**Other Health Warnings:**

NONE

**Potential Environmental Effects**

NONE KNOWN

**III. Composition/Information on Ingredients:**

Chemical Name	CAS No.	% Range	Trade Secret
Ammonium bifluoride	1341497	5-15	
Citric acid	77929	15-25	
Dipropylene glycol methyl ether	34590948	0-5	
PSRN57948000-5077P	TradeSecret	5-15	
Water	7732185	50-60	

**IV. First Aid Measures:****Emergency and First Aid Procedures:**

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EYES: IMMEDIATELY FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES, CONTACT PHYSICIAN.

SKIN: WASH OFF WITH LARGE AMOUNTS OF WATER AND SEEK MEDICAL ATTENTION IF IRRITATION OR CHEMICAL BURNS DEVELOP.

INHALATION: REMOVE TO FRESH AIR, CALL PHYSICIAN.

INGESTION: SEEK MEDICAL ATTENTION IMMEDIATELY! GIVE LARGE VOLUMES OF WATER. DO NOT INDUCE VOMITING UNLESS ADVISED BY LICENSED MEDICAL PERSONNEL. ADVISE MEDICAL PERSONNEL OF POSSIBLE FLUORIDE EXPOSURE.

**Note to Physicians:**

EYES, FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

DO NOT INDUCE VOMITING.

### V. Fire Fighting Measures:

**Suitable Extinguishing Media:**

DRY CHEMICAL, WATERFOG, CO2, FOAM

**Unsuitable Extinguishing Media:**

NONE KNOWN

**Products of Combustion:**

HIGHLY TOXIC AND CORROSIVE FUMES OF FLUORIDES ARE EMITTED; WILL REACT WITH WATER OR STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES

**Protection of Firefighters:**

USE NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS WHERE PRODUCT IS INVOLVED IN FIRE.

### VI. Accidental Release Measures:

**Personal Precautions:**

RUBBER GLOVES SHOULD BE WORN.  
SAFETY GOGGLES SHOULD BE WORN.

**Environmental Precautions:**

CONTACT U.N.X. INCORPORATED

**Methods for Containment:**

DIKE; APPROVED PLASTIC CONTAINERS

**Methods for Cleanup:**

FOR SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN.

FOR LARGE SPILL, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH OF 7.0) WITH LIMESTONE OR SODA ASH.

**Other Information:**

EMPTY DRUMS MUST BE TREATED AS HAZARDOUS BECAUSE OF RESIDUES.

### VII. Handling and Storage:

**Handling Precautions:**

KEEP CONTAINER CLOSED.

**Storage Precautions:**

STORE IN A COOL PLACE.

### VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Water	Not Available	Not Available	Not Available
Ammonium bifluoride	Not Available	Not Available	Not Available
Citric acid	Not Available	Not Available	Not Available
Dipropylene glycol methyl ether	100ppm	100ppm	Not Available
PSRN57948000-5077P	Not Available	Not Available	Not Available

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### Engineering Controls:

AVOID BREATHING MIST. IF EXPOSURE IS LIKELY, USE FILTER OR PROTECTIVE RESPIRATOR. MECHANICAL VENTILATION IS ACCEPTABLE.

### Personal Protective Equipment:

RUBBER GLOVES SHOULD BE WORN.  
SAFETY GOGGLES SHOULD BE WORN.  
OTHER PROTECTIVE MEASURES: HAVE AN EYE BATH AND SAFETY SHOWER CLOSE BY. IF POTENTIAL FOR SKIN CONTACT, WEAR PROTECTIVE GLOVES AND HAVE A HAND WASH AREA NEAR BY (ie. SOAP SOLUTION.).  
WORK/HYGIENIC PRACTICES: WASH HANDS, CHANGE OUT OF CLOTHES AS SOON AS POSSIBLE. WASH CLOTHES. SHOWER OR BATHE AS SOON AS POSSIBLE.

## IX. Physical and Chemical Properties:

**Boiling Point:** NO DATA

**Boiling Range:** NO DATA

**Solubility In Water:** EXCELLENT IN WARM WATER

**Flash Point:** NO DATA

**Odor Threshold:** NO DATA

**Vapor Density (AIR = 1):** <1

**pH Range:** 0 - 2

**Decomposition Temp:** NO DATA

**Lower Explosive Limit:** NO DATA

**Specific Gravity (H2O = 1):** 1.10

**Other Information:** CONTAINS FLUORIDES

**Melting Point:** NO DATA

**Freezing Point:** NO DATA

**Evaporation Rate (Butyl Acetate = 1):** NO DATA

**Flash Point Method:** NO DATA

**Appearance and Odor:** WATER WHITE; NO ODOR

**Vapor Pressure (mm Hg.):** NO DATA

**Partition Coefficient:** NO DATA

**Auto-Ignition Temp:** NO DATA

**Upper Explosive Limit:** NO DATA

## X. Stability and Reactivity:

### Stability:

STABLE

### Conditions to Avoid:

DANGEROUS WHEN HEATED TO DECOMPOSITION. WILL REACT WITH STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES. MAY GENERATE HYDROGEN WHEN IN CONTACT WITH SOME METALS.

### Incompatible Materials:

CONTACT WITH METALS, STONWARE, STRONG ACIDS AND ALKALI, EXPLOSIVES, TOXICANTS, READILY OXIDIZABLE MATERIALS, ALKALI METALS, COMBUSTIBLE SOLIDS, AND ORGANIC PEROXIDES.

### Hazardous Decomposition Products:

EXTREME TEMPERATURE SUCH AS A FIRE CAUSE FORMATION OF HIGHLY TOXIC FUMES OF FLUORIDES SUCH AS SILICA FLUORIDES AND HYDROGEN FLUORIDE. HYDROGEN GAS MAY BE FORMED AT TEMPS ABOVE 227°F.

### Possibility of Hazardous Reactions:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

## XI. Toxicological Information:

CONTACT U.N.X. INCORPORATED

## XII. Ecological Information:

CONTACT U.N.X. INCORPORATED

## XIII. Disposal Considerations:

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FOR SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN.  
 FOR LARGE SPILL, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH OF 7.0) WITH LIMESTONE OR SODA ASH.

FOR A LARGE SPILL, DIKE, COLLECT AND CONTACT LOCAL AUTHORITIES ABOUT DISPOSAL.

**XIV. Transport Information:**

**Shipping Name:** AMMONIUM HYDROGENDIFLUORIDE SOLUTION

**DOT Hazard Class:** 8

**DOT Subsidiary Hazard Class:** Not Available

**UN/NA#:** UN2817

**Packing Group:** III

**Transportation Information:**

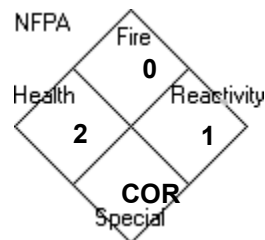
UN 2817  
 DOT HAZARD CLASS: 8  
 LABEL: CORROSIVE  
 PG: III  
 PROPER SHIPPING NAME: AMMONIUM HYDROGENDIFLUORIDE SOLUTION, 8, PG III.

**XV. Regulatory Information:**

UNLESS OTHERWISE NOTED, NO COMPONENTS ARE SARA TITLE 3 SECTION 313 40 CFR LISTED MATERIALS.  
 THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.  
 THIS PRODUCT IS NOT MADE WITH VOC'S THAT COULD CAUSE DAMAGE TO THE OZONE LAYER.

**XVI. Other Information:**

**Chemical State:**  Liquid  Gas  Solid  
**Chemical Type:**  Pure  Mixture  
**Hazard Category:**  Acute  Chronic  Fire  Pressure  Reactive



**Additional Manufacturer Warnings:**

Not Available

<b>2</b>	Health
<b>0</b>	Flammability
<b>1</b>	Physical Hazard
<b>D</b>	Pers. Protection

**Additional Product Information:**

SPECIALTY STAIN REMOVER