



GHS SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FORMULA 4000

Manufactured By: VentureTECH Corporation
10350 Yellow Pine Lane
Knoxville, TN 37932

Synonyms:

Product Details: Acidic Proprietary Blend of Acids

General Information: (865) 966-2532

Emergency Phone: (865) 544-9400

Trans. Emergency Phone: INFOTRAC: 800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Health:	Environmental:	Physical:
Acute Toxicity Inhalation Category 1	Aquatic Toxicity, Acute Category 1	Corrosive to Metals
Acute Toxicity Oral/Dermal Category 1	Aquatic Toxicity, Chronic Category 1	
Eye Corrosion Category 1		
Skin Corrosion Category 1		
Target Organ Toxicity (Single) Category 1		
Target Organ Toxicity (Repeated) Category 1		

GHS Label Elements

Symbol:	Hazard Statements:	Precautionary Statements:
	<p>DANGER!</p> <p>[]</p> <p>Irritant to mouth, throat, esophagus and stomach. Irritant to mucous membranes of the respiratory tract. Irritant to eye tissues. Irritant to all skin tissues.</p> <p>[x]</p> <p>Corrosive to mouth, throat, esophagus and stomach. Corrosive to mucous membranes of the respiratory tract. Corrosive to eye tissues. Corrosive to all skin tissues.</p>	<p>Harmful if swallowed. Avoid breathing dusts or mists. Avoid eye contact. Avoid contact with skin. Wash thoroughly after use. Use with adequate ventilation. Chemical type goggles recommended. Impervious rubber or neoprene gloves recommended.</p>

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Principal Hazardous Compound:	Percent:	CAS No:
Sulfuric Acid	0-10%	7664-93-9
Ammonium Bifluoride	0-7%	1341-49-7

SECTION 4: FIRST AID MEASURES

Eye:	For eye irritation. Remove contact lenses. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
Skin:	For contact, immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Pay particular attention to skin under nails. Always have on hand a supply of magnesia paste, magnesium oxide or calcium gluconate gel 2.5% to apply to effected skin areas.
Inhalation:	For nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability, Seek medical attention. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.
Ingestion:	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use water spray, carbon dioxide, fog, foam, or dry chemical as required by surrounding fire.
Fire Fighting Procedures:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special Protective Equipment or Fire-Fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Specific Hazards Arising from the Chemical:	In a fire or if heated, a pressure increase will occur and a sealed container may burst. Hydrofluoric acid corrodes most metals releasing flammable and explosive concentrations of hydrogen. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact of spilled material and runoff with soil and surface waterways.

Methods for Cleaning Up: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

SECTION 7: HANDLING AND STORAGE

Handling: Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated.

Storage: Store in tightly closed containers in cool, dry, well-ventilated area. Keep containers tightly closed and upright when not in use. Protect against physical damage. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A

Personal Protective Equipment (PPE)

Engineering Controls:

Good room ventilation usually adequate. Local exhaust ventilation may be necessary

Eye Protection:

Wearing chemical safety goggles and/or face shield recommended.

Skin Protection:

Wearing gloves impervious to conditions of use recommended.

Respiratory Protection:

Not required.

Other PPE:

Wear appropriate clothing to avoid contact with product. Wash hands thoroughly after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid

Odor: Acidic

pH: <1.5

Specific Gravity: 1.11

Flash Point: None

Flammability: Non-Combustible

Relative Density: 8.3lb.

Solubility: Complete

Data Not Available for the Following Categories:

Odor Threshold **Partition Coefficient**

Melting/Freezing Point **Autoignition Temp**

Boiling Range **Decomposition Temp**

Evaporation Rate **Viscosity**

Explosive Limits

Vapor Pressure

Vapor Density

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Incompatible Materials: None known

Possibility of Hazardous Reaction: NA

Hazardous Decomposition Products: None known

Conditions to Avoid: None known

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route of Exposure:

Eye Contact [X]

Skin Contact [X]

Inhalation [x]

Ingestion [X]

Acute Effects:

Eye Contact Causes eye burns on contact

Skin Contact Corrosive to skin and mucous membranes. Both liquid and vapor causes severe burns which may not be immediately painful or visible

Inhalation Mists and sprays may cause severe irritation and damage to mucous membranes of respiratory tract. Lung injury may be delayed

Ingestion Causes severe and rapid burns to mouth, throat gastrointestinal tract

Signs and Symptoms of Overexposure:

Eye and nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, difficulty breathing, cyanosis, tremors, weakness, itching or burning of the skin.

Chronic Effects:

Causes severe and rapid burns. Excessive deposition of fluoride in bone

Acute Toxicity Values:

Oral: NA

Dermal: NA

Inhalation: NA

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: NA

Degradability: NA

Bioaccumulative Potential: NA

Mobility In Soil: NA

Acute Toxicity Values: NA

SECTION 13: DISPOSAL CONSIDERATIONS

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

UN/NA Number: NA1760

Proper Shipping Name: Compounds, Cleaning Liquid (Sulfuric Acid & Ammonium Bifluoride)

Hazard Class: Corrosive 8

Packing Group: II

Marine Pollutant: NA

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA 8(b) Inventory : All components of this product are listed or exempted.

SARA 302/304/311/312 Extremely Hazardous Substances: No listed substance.

SARA 302/304 Emergency Planning and Notification: No listed substance.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Component	CAS No:	Maximum Percent:
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Form R - Reporting Requirements: No listed substance.

California Prop 65: No listed substance.

SECTION 16: OTHER INFORMATION

The information in this data sheet has been assembled by the manufacturer based on its own studies and on the work of others. The manufacturer makes no warranties, express or implied as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

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