



Hawaii's only locally manufactured cleaning product line

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Oahu - Maui - Kauai - Hawaii

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Safety Data Sheet

Section 1. Identification

Product Identifier:	<i>Ultimate</i>
Recommended Use:	Industrial strength water spot remover
Manufacturer:	ABC Corporation
Company Address:	94-085 Leonui St. Waipahu, HI 96797
Company Telephone:	(808) 671-2671
CHEMTREC Emergency Phone Number (24hr hotline):	1(800) 424-9300

Section 2. Hazard(s) Identification

GHS label elements

Pictogram(s):



Signal Word:

DANGER

Hazard Statement(s):

Toxic by inhalation, in contact with skin, and if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary Statement(s):

Avoid breathing fumes or mist.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wash thoroughly after handling.
If exposed call a poison center or physician.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or physician if you feel unwell. If swallowed: call a poison center or physician to specify the appropriate source of emergency medical advice. Rinse mouth. Do not induce vomiting. If on skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. If inhaled: remove person to fresh air and keep comfortable for breathing. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON center or physician.

Store in a well ventinated places. Keep container tightly closed. Store locked up.

Section 3. Composition/Information on ingredients

<u>Name</u>	<u>Synonyms</u>	<u>CAS No.</u>	<u>%</u>	<u>GHS-US classification</u>
Ammonium Bifluoride	Ammonium hydrogen difluoride	1341-49-7	<10%	Acute oral toxicity 3; Skin Corrosion/irritation 1; Eye damage 1; Target organs - respiratory system (single)3/(repeated)2; Target organs - bone 2;
Hydrogen Fluoride	Hydrofluoric acid	7664-39-3	<2%	Eye damage 1; Skin damage 1; Acute toxicity (inhalation) 3; Specific organ toxicity (single exposure) respiratory tract irritation 3
Citric Acid	2-Hydroxy-1,2,3-Propanetricarboxylic acid	77-92-9	<10%	Eye irritant 2B; Skin irritant 2; Skin sensitization 1B
Phosphoric Acid	N/A	7664-38-2	<10%	Acute inhalation toxicity 2; Acute dermal toxicity 5; Skin corrosion 1B; Serious eye damage 1
Nonylphenol polyethylene glycol ether	N/A	127087-97-0	<10%	Eye irritant 2B; Skin irritant 2; Combustible liquid

Nonylphenol, branched, ethoxylated	N/A	68412-54-4	<10%	Eye irritant 2B; Skin irritant 2; Combustible liquid
Quaternary amine compound/ethoxylated alcohol blend	N/A	proprietary	<10%	Eye irritant 1; Skin irritant 1
Fragrance	N/A	Confidential	<1%	Combustible liquid; Eye irritant 2

Section 4. First Aid Measures

General:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation:	When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
Skin Contact:	Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Ingestion:	Rinse mouth. Do NOT induce vomiting until speaking with a physician or emergency responder.
Other:	Treatment for exposure to hydrofluoric acid is specific and may require the use of calcium containing antidotes. Seek a physician if exposed.

Section 5. Firefighting measures

Extinguishing Media:	Waterspray, foam, or fog.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	ND
Fire Hazard:	ND
Explosion Hazard:	ND
Reactivity:	Stable under normal use conditions.
Hazardous decomposition products:	Carbon oxides, hydrofluoric acid, ammonia, sodium oxides.
Instruction/Advice for Firefighters:	Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Small fires: Move containers from fire area if you can do it without risk.
Protection during firefighting:	Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6. Accidental release measures

Personal Precautions, protective equipment and emergency procedures

General Measures:	Never walk through spilled material. Wear appropriate personal protective equipment. Avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate the area before entry if spill has occurred in non-ventilated area or if fumes are present.
<i>For non-emergency personnel</i>	
Protective Equipment:	Use appropriate PPE.
Emergency procedures:	Evacuate unnecessary personnel. Only personnel trained on Emergency Standard Operating Procedure should aid in clean up.
<i>For Emergency responders</i>	
Protective Equipment:	Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
Emergency procedures:	Follow Standard Operating Procedures for facility where accidental release occurred.
Environmental Precautions:	Prevent spills from entering waterways.
Methods and material for containment and cleaning up:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Section 7. Handling and Storage

Precautions for safe handling

Additional hazards when processed:	ND
Precautions for safe handling:	Wear appropriate PPE.
Hygiene Measures	Wear appropriate PPE.
<i>Conditions for safe storage, including any incompatibilities</i>	
Technical Measures:	ND
Incompatible materials:	Strong oxidizing chemicals, alkaline chemicals.
Storage area:	Store in a cool, dry place.
Special rules on packaging:	ND

Section 8. Exposure controls/personal protection

<i>Control Parameters</i>			
<u>Name</u>	<i>ACGIH</i>	<i>NIOSH</i>	<i>OSHA</i>
Ammonium Bifluoride	Not determined	Not determined	2.5mg/m3
Hydrogen Fluoride	.5ppm	3ppm	2.5mg/m3
Citric Acid	Not determined	Not determined	Not determined
Phosphoric Acid	1mg/m3	Not determined	1mg/m3
Nonylphenol polyethylene glycol ether	Not determined	Not determined	Not determined
Nonylphenol, branched, ethoxylated	Not determined	Not determined	Not determined

TWA - Time-Weighted Averages based on 8hr/day, 40hr/week exposure

Exposure Controls

Personal Protective Equipment:	Gloves, goggles, proper clothing and shoes, respirator if fumes exceed threshold limits.
Hand protection:	Gloves
Eye protection:	Chemical goggles, safety glasses or face shield.
Skin and body protection:	Always wear proper clothing and shoes when dispensing hazardous chemicals.
Respiratory protection:	Respirator if fumes exceed exposure limits.
Other protective measures:	ND

ND - Not Determined

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State:	Liquid
Appearance	Clear green liquid
Color	Clear Green
Odor	Mint
Odor threshold	ND
pH:	4.3
Relative evaporation rate (butylacetate=1)	ND
Melting point:	ND
Freezing point:	ND
Boiling point:	ND
Flash Point:	ND
Auto-ignition temperature:	ND
Decomposition Temperature:	ND
Flammability:	ND
Solubility:	Soluble in water
Explosive properties:	ND
Oxidizing properties:	ND
Explosive limits:	ND
Other information:	N/A

ND - Not Determined

Section 10. Stability and Reactivity

Reactivity:	Reactive with alkaline and strong oxidizing chemicals.
Chemical Stability:	Stable under normal use conditions.
Possibility of Hazardous Reactions:	ND
Conditions to avoid:	Never mix chemicals. Avoid contact with metals and glass.
Incompatible Materials:	Alkaline and strong oxidizing chemicals.
Hazardous Decomposition Products	None known to ABC Corporation.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Category 4
Skin corrosion/irritation (acute):	Causes skin burns.

Skin corrosion/irritation (Chronic):	Causes skin burns. May cause skin sensitization.
Serious eye damage/irritation (acute):	Causes severe eye damage.
Serious eye damage/irritation (chronic):	Causes severe eye damage. May cause irreversible damage or blindness.
Respiratory corrosion/irritation (acute):	Causes respiratory irritation and damage. Can be toxic by inhalation.
Respiratory corrosion/irritation (chronic):	Causes respiratory irritation and damage. Can be toxic by inhalation.
Ingestion (acute):	Likely to cause irritation to gastrointestinal tract if ingested. Toxic by ingestion.
Ingestion (chronic):	Likely to cause irritation to gastrointestinal tract if ingested. Toxic by ingestion.
Germ cell mutagenicity:	ND
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive Toxicity:	ND
Specific target organ toxicity (single exposure):	Respiratory tract, bone.
Specific target organ toxicity (repeated exposure):	Respiratory tract, bone.
Aspiration hazard:	ND
Symptoms/injuries after eye contact:	Redness, swelling, severe burning, eye damage which may be permanent, or blindness.
Symptoms/injuries after ingestion:	ingestion.

ND - Not determined

Section 12. Ecological Information

Toxicity	Harmful to aquatic organisms. Likely to be harmful to environment.
Persistence and degradability	ND
Bioaccumulative Potential	ND
Mobility in soil:	ND
Other adverse effects:	ND

ND - Not determined

Section 13. Disposal Considerations

Waste disposal recommendations:	To be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/ international regulations.
Additional information:	N/A

Section 14. Transport Information

UN Number:	2922
DOT NA no:	N/A
UN Proper Shipping name:	Corrosive liquids, toxic N.O.S. (Contains ammonium hydrogen difluoride, phosphoric acid, hydrofluoric acid)
Hazard Class:	N/A

Hazard Label:	8, 6.1
Packing Group:	II
DOT packaging exceptions:	N/A

Section 15. Regulatory Information

US Federal Regulations:	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standards, this product contains materials that are considered hazardous.
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US State Regulations:

Section 16. Other Information

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