

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: H2O Solutions Maverick

PRODUCT USE: Aluminum Cleaner

MANUFACTURED FOR: H2O Solutions LLC.
PO Box 1776
Mt. Juliet, TN 37121-1775

INFORMATION PHONE: 615-714-5240

EMERGENCY PHONE: INFOTRAC
1-800-535-5053 USA & Canada
352-323-3500 International

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION: Acute Toxicity - Oral: Category 1
Acute Toxicity - Skin: Category 1
Acute Toxicity - Inhalation: Category 2
Skin Corrosion: Category 1
Eye Damage: Category 1
Aquatic Hazard - Long-term: Category 3

PICTOGRAMS:



GHS ELEMENTS:

SIGNAL WORD: Danger

HAZARD STATEMENT(S): H300 | Fatal if swallowed.
H310 | Fatal in contact with skin.
H330 | Fatal if inhaled.
H314 | Causes severe skin burns and eye damage.
H318 | Causes serious eye damage.
H412 | Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S): P260 | Do not breathe dust/fume/gas/mist/vapours/spray.
P262 | Do not get in eyes, on skin, or on clothing.
P264 | Wash any exposed body parts thoroughly after handling.
P270 | Do not eat, drink or smoke when using this product.
P271 | Use only outdoors or in a well-ventilated area.
P273 | Avoid release to the environment.
P280 | Wear protective gloves/protective clothing/eye protection/face protection.
P284 | Wear respiratory protection.
P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P302 + P350 | IF ON SKIN: Gently wash with plenty of soap and water.
P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.
P320 | Specific treatment is urgent (see supplemental first aid instruction on this label if immediate administration of antidote is required).
P321 | Specific treatment (see supplemental first aid instruction on this label if immediate administration of antidote/specific measures/cleansing agent/immediate measures is/are appropriate/required).
P322 | Specific measures (see supplemental first aid instruction on this label if immediate measures such as specific cleansing agent is advised).
P330 | Rinse mouth.
P361 | Remove/Take off immediately all contaminated clothing.
P363 | Wash contaminated clothing before reuse.
P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.
P405 | Store locked up.
P501 | Dispose of contents/container to appropriate waste disposal entity in accordance with local/regional/national/international regulation.

ADDITIONAL PRECAUTIONS: None Known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	PERCENT
Sulfuric Acid	7664-93-9	60 - 70%
Hydrofluoric acid	7664-39-3	10 - 20%
2-Butoxyethanol	111-76-2	1 - 5%
Nonylphenol ethoxylate	127087-87-0	1 - 5%

The chemical identity of some or all components is confidential business information (trade secret) and is being withheld as permitted by 29CFR19191200 (i). No other ingredients known to be hazardous.

SECTION 4 - FIRST AID MEASURES

EYES: Corrosive to the eyes. Symptoms of redness, pain, blurred vision, and permanent eye damage may occur.

SKIN: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Corrosive to the skin. Skin contact causes serious skin burn which may not be immediately apparent or painful.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

INGESTION: Do NOT induce vomiting. May cause sore throat, abdominal pain, diarrhea,

vomiting, severe burns of the digestive tract, and kidney dysfunction. Rinse mouth out with water. Consult a physician.

GENERAL: Move out of dangerous area. Consult a physician. Show this safety sheet to the doctor in attendance.

See Section 11 for exposure symptoms.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABILITY: In a fire or if heated, a pressure increase will occur and the container may burst.

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire.

PROTECTIVE EQUIPMENT: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

ADDITIONAL INFORMATION: Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

ENVIRONMENTAL: Do not let product enter drains.

CONTAINMENT/CLEANUP: Soak up with an inert absorbant material and dispose of as a hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING: Wear proper personal protective equipment. Avoid breathing vapor or mist.

SAFE STORAGE: Keep container tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.

EYE PROTECTION: Safety eye-wear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

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RESPIRATORY PROTECTION: Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.

HAND PROTECTION: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

COMPONENT	ACGIH TWA ppm	OSHA/NIOSH STEL ppm	OSHA/ACGIH STEL mg/m3
Sulfuric Acid	None	None	0.20
Hydrofluoric acid	0.50	None	None
2-Butoxyethanol	20.00	None	None
Nonylphenol ethoxylate	None	None	None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	UPPER EXPLOSIVE LIMITS:	NA
COLOR:	Clear blue	LOWER EXPLOSIVE LIMITS:	NA
ODOR:	Sharp acid	VAPOR PRESSURE:	NA
ODOR THRESHOLD:	NA	VAPOR DENSITY:	NA
PH:	00.1 - 02.0	RELATIVE DENSITY:	0.00
MELTING POINT:	NA	SOLUBILITY:	Completely Water Soluble
FREEZING POINT:	0.00 F	PARTITION COEFFICIENT:	NA
BOILING POINT:	0	AUTO-IGNITION TEMPERATURE:	NA
FLASH POINT:	NA	DECOMPOSITION TEMPERATURE:	NA
EVAPORATION RATE:	NA	SPECIFIC GRAVITY:	NA
FLAMMABILITY:	Nonflammable	% VOLATILE:	0.00000
		VISCOSITY (cst):	0.00

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: HAZARDOUS DECOMPOSITION PRODUCTS

CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Reactive with metals.
CONDITIONS TO AVOID:	Avoid heat and open flames.
INCOMPATIBLE MATERIALS:	STRONG OXIDIZERS, ALKALIS - react with metals producing flammable hydrogen gas which can form explosive mixtures with air.
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: X Inhalation X Absorption Ingestion

ACUTE EXPOSURE HAZARDS:

EYE CONTACT:	Severe eye irritation, burns.
DERMAL:	Skin irritation, can cause burns with contact.
ORAL:	Corrosive to mucous membranes.
INHALATION:	MIST MAY BE MILD TO STRONG IRRITANT, CORROSIVE.

Sulfuric Acid (CAS No. 7664-93-9)
 Oral LD50: Mosquito Fish 42 mg/L 96h
 2-Butoxyethanol (CAS No. 111-76-2)
 Oral LD50: Rat 470 mg/kg
 Nonylphenol ethoxylate (CAS No. 127087-87-0)
 Oral LD50: Rat 1600 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:	No data available.
PERSISTENCE & DEGRADABILITY:	No data available.
BIOACCUMULATIVE POTENTIAL:	No data available.
MOBILITY IN SOIL:	No data available.
OTHER ADVERSE EFFECTS:	No data available.

2-Butoxyethanol (CAS No. 111-76-2)
 Crustacean LC50: Daphnia 1818 mg/L 24h

SECTION 13 - DISPOSAL CONSIDERATION

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of the product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

DOT (US)

UN NUMBER:	UN1760
SHIPPING NAME:	Corrosive Liquids, N.O.S.
TECHNICAL NAME:	(Hydrofluoric Acid, Sulfuric Acid)
HAZARD CLASS:	8
PACKAGING GROUP:	II

SECTION 15 - REGULATORY INFORMATION

SARA 313 COMPONENTS	CAS NO.	% LESS THAN
Sulfuric Acid	7664-93-9	60 - 70%
Hydrofluoric acid	7664-39-3	10 - 20%
2-Butoxyethanol	111-76-2	1 - 5%
CALIFORNIA PROP. 65 COMPONENTS	CAS NO.	% LESS THAN

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

Health Hazard	4
Fire Hazard	0
Reactivity	0
Personal Protection	H

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

- A Safety Glasses
- B Safety Glasses, Gloves
- C Safety Glasses, Gloves, Apron
- D Face Shield, Gloves, Apron
- E Safety Glasses, Gloves, Dust Respirator
- F Safety Glasses, Gloves, Apron, Dust Respirator
- G Safety Glasses, Gloves, Vapor Respirator
- H Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- I Safety Glasses, Gloves, Dust & Vapor Respirator
- J Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- K Airline Hood or Mask, Gloves, Full Suit, Boots
- X Consult your supervisor for special handling directions

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NATIONAL FIRE PROTECTION
ASSOCIATION (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health, and reactivity hazards of chemicals.

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