

Safety Data Sheet
ALUMA KLEEN 1000

WM 5401, WM 5402
WM 5403, WM 5405
WM 5406

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME ALUMA KLEEN 1000
SYNONYMS Product is a mixture: No synonyms are available
PRODUCT USE Highly Acidic Material
SUPPLIER WESMAR CO. INC.
SUPPLIER'S ADDRESS 5720 204TH ST. SW, LYNNWOOD, WA 98036
(206) 783-5344
EMERGENCY RESPONSE PHONE PERS: 1-800-633-8253



SECTION 2 – HAZARD IDENTIFICATION

GHS – US CLASSIFICATION : H290 Metal corrosion Category 1
H302 Harmful if swallowed
: H314 Skin Corrosion Category 1A
: H318 Serious Eye Damage Category 1
: H370 STOT SE 1

HAZARD PICTOGRAMS :



SIGNAL WORD : **DANGER**

GHS LABEL ELEMENTS : The product is classified and labeled according to the Globally Harmonized System (GHS).

GHS PHYSICAL HAZARDS : H290 May be corrosive to metals.
GHS HEALTH HAZARDS : H302 Harmful if swallowed
: H314 Causes severe skin burns and eye damage.
: H318 Causes serious eye damage.
: H370 Causes damage to respiratory system by inhalation.

GHS PRECAUTIONARY HAZARDS : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin and contaminated clothing thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear suitable protective gloves/protective clothing/eye protection/face protection.
P303+P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
+P353
: P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
+P338
: P305+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position.
: P310 Immediately call a POISON CENTER or doctor/physician.
: P330 Rinse mouth if ingested.
: P405 Store locked up.
: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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CLASSIFICATION SYSTEM: : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA ratings (scale 0-4): : Health = 3, Fire = 0, Reactivity = 1
HMIS ratings (scale 0-5): : Health = 3, Fire = 0, Reactivity = 1

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sulfuric acid	15-30	7664-93-9	331-639-5	Skin Corr Cat 1A, Eye Dam Cat 1 STOT SE 3, Metal Corr Cat 1
Phosphoric acid	10-20	7664-38-2	231-633-2	Skin Corr. Cat 1B, Eye Dam. Cat 1
Ammonium Hydrogen Difluoride	10-20	1341-49-7	215-676-4	Skin Corr Cat 1B, Eye Dam Cat 1 Acute Oral Toxicity Cat 3
Cocoamidopropyl Betaine	1-5	61789-40-0	263-058-8	Eye Irrit Cat 2B

Corr. = Corrosion, Cat. = Category, Tox = Toxicity, Inhal. = Inhalation, STOT SE = Specific Target Organ Toxicity – Single Exposure.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before reuse.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

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. Immediately call a POISON CENTER/doctor/physician.

GENERAL MEASURES : Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, fog, carbon dioxide, foam, dry chemical

SPECIAL HAZARDS (FIRE) : Not flammable. Contains sodium hypochlorite which may act as an oxidizer in some cases intensifying a fire.

EXPLOSION HAZARDS : Product is not explosive.

REACTIVITY (FIRE) : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

PRECAUTIONARY MEASURES : Exercise caution when fighting any chemical fire.

FIREFIGHTING INSTRUCTIONS : Use water spray or fog for cooling exposed containers.

PROTECTION DURING : Do not enter fire area without proper protective equipment, including respiratory

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- FIREFIGHTING** : protection.
- HAZARDOUS COMBUSTION PRODUCTS** : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO₂). Explosive Hydrogen gas.
- OTHER INFORMATION (FIRE)** : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.
- ENVIRONMENTAL PRECAUTIONS** : Keep spilled material away from sewage/drainage systems and waterways. If amounts exceeding the Reportable Quantity (5000 lbs. as phosphoric acid) are released, notification of the National Response Center (800) 424-8802 is required. See section 15 for more information.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP** : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.
- CONDITIONS FOR SAFE STORAGE** : Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- TLV (THRESHOLD LIMIT VALUE)** : The TLV in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	USA OSHA PEL – TWA	USA ACGIH TWA	USA ACGIH – STEL
Sulfuric Acid	1 mg/m ³	0.5 mg/m ³	3mg/m ³
Phosphoric Acid	1 mg/m ³	1mg/m ³	3mg/m ³
Ammonium Hydrogen Difluoride	2.5 mg/m ³	2.5 mg/m ³	Not Established
Cocoamidopropyle Betaine	Not Established	Not Established	Not Established

- EYE PROTECTION** : Wear chemical splash goggles or face shield.
- SKIN PROTECTION** : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.
- RESPIRATORY PROTECTION** : In case of brief exposure use respiratory filter device. In case of intensive or longer

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- exposure, use respiratory protective device that is independent of circulating air.
- VENTILATION** : Ensure adequate ventilation.
- ADDITIONAL MEASURES** : Emergency eyewash and safety shower facilities should be available in the immediate work area.
- REQUIRED WORK/HYGIENE** : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE** : Clear liquid with sharp odor
- ODOR** : Mild odor
- ODOR THRESHOLD** : Not available
- PH** : < 2.0
- MELTING POINT/FREEZING POINT** : Not available
- BOILING POINT** : Not available
- FLASHPOINT** : Not applicable
- EVAPORATION RATE** : Not available
- FLAMMABILITY** : Non flammable, Non combustible
- LOWER FLAMMABILITY LIMIT** : Not applicable
- UPPER FLAMMABILITY LIMIT** : Not applicable
- VAPOR PRESSURE** : Not available
- VAPOR DENSITY (AIR=1)** : Not available
- RELATIVE DENSITY** : 1.25
- SOLUBILITY IN WATER** : Soluble in water
- PARTITION COEFFICIENT n-OCTANOL/WATER** : Not available
- AUTOIGNITION TEMPERATURE** : Not available
- DECOMPOSITION TEMPERATURE** : Not available

SECTION 10 – STABILITY AND REACTIVITY

- REACTIVITY** : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
- STABILITY** : Stable under recommended storage conditions.
- HAZARDOUS CONDITIONS TO AVOID** : Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.
- INCOMPATIBLE MATERIALS** : Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Carbon oxides (CO, CO₂). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

- TOXICOLOGICAL INFORMATION** : **Sulfuric Acid**
- ACUTE TOXICITY** : Liquid and mist cause severe irritation and burns to all body tissue. May be fatal if swallowed or inhaled. Inhalation may cause lung damage. Avoid breathing vapor.
- ACUTE ORAL TOXICITY** : LD50 Oral (rat) 2140mg/kg.

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ACUTE INHALATION TOXICITY : LC50 Inhalation (rat) 510mg/kg.
REPEATED DOSE TOXICITY : Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis

CARCINOGENICITY : Not a known carcinogen
SPECIAL REMARKS: TOXIC EFFECTS ON HUMANS : The severity of damage depends on the concentration of the acid and the duration of the exposure. Contact with water will generate considerable heat. Contact with most metals will generate flammable hydrogen gas.

TOXICOLOGICAL INFORMATION : **Phosphoric Acid**
ACUTE ORAL TOXICITY : LD50 (rat) is greater than 1,530 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).
ACUTE DERMAL TOXICITY : LD50 (rat) is greater than 3,160 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402).
ACUTE INHALATION TOXICITY : LC50 (guinea pig, mouse, rat, rabbit) is 61-1,689 mg/m³; highly toxic by inhalation. (TFI Product Testing Results)
ACUTE FISH TOXICITY : 96-hour LC₅₀ is 3.0-3.5 mg/L (ppm); moderate toxicity to aquatic organisms. (TFI Product testing Results, OECD Guideline 203).

TOXICOLOGICAL INFORMATION : **Ammonium Hydrogen Difluoride**
ACUTE TOXICITY : Eyes, Skin, Ingestion, Inhalation: Not available LD50 Oral (rat): 60 mg/kg.
CARCINOGENICITY (IARC) : 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ammonium Bifluoride).
CARCINOGENICITY : No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, ACGIH, OSHA
CHRONIC TOXICITY : Causes damage to following organs: lungs, mucous membranes.

TOXICOLOGICAL INFORMATION : **Cocoamidopropyl Betaine**
ACUTE TOXICITY : LD50 Oral (rat): 5000-15,000 mg/kg.
INHALATION LC50 : No data available
DERMAL LD50 : No data available
CARCINOGENICITY : This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
MUTAGENICITY : Not mutagenic in AMES test.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : **Sulfuric Acid**
AQUATIC ECOTOXICITY : *Gambusia affinis* (Mosquito Fish): 96 hour LC50 42 mg/l
PERSISTENCE AND DEGRADABILITY : The acid will permeate soil, dissolving some soil material and will be somewhat neutralized. High water solubility. Sulfuric acid dissociates in water and it will lower pH. It will be neutralized by naturally alkalinity of surface water
ENVIRONMENTAL ADVERSE EFFECTS : Toxic to aquatic life. Acidic substance leading to a lower pH. However, pH will increase rather quickly because of dilution until an ecological neutral product is obtained. Fatal to aquatic life due to pH shift.

ECOLOGICAL INFORMATION : **Phosphoric Acid**
AQUATIC TOXICITY : Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift. Insufficient data available on eco-toxicity. LC50/96hour:138mg/L (*Gambusia Afinis*).
PERSISTENCE AND DEGRADABILITY : No relevant information available.
BIOACCUMULATIVE POTENTIAL : No relevant information available.

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NOTES : Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinsing larger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.

ECOLOGICAL INFORMATION : **Ammonium Hydrogen Difluoride**
AQUATIC TOXICITY : LC50 Fish 237 mg/L.
ENVIRONMENTAL FATE : No information found

ECOLOGICAL INFORMATION : **Cocoamidopropyl Betaine**
ECOTOXICITY : Not available
PERSISTENCE AND DEGRADABILITY : No data available
BIOACCUMULATIVE POTENTIAL : No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS : This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

ECOLOGY-WASTE MATERIALS : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME : UN-2922, CORROSIVE LIQUID, TOXIC, N.O.S. (SULFURIC ACID, AMMONIUM HYDROGEN DIFLUORIDE) 8, 6.1 PG-II

HAZARD CLASS AND LABEL : 8 (Corrosive)

UN NUMBER : UN-2922

PACKAGING GROUP : PG-II

EPA REPORTABLE QUANTITY (RQ) : 1000 LBS. (454 KG) as Sulfuric acid 100%.

MARINE POLLUTANT : Marine Pollutant

EMERGENCY RESPONSE GUIDE : ERG-154



SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN : Not listed

TSC STATUS : The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)

SARA SECTION 302 : None

SARA SECTION 311/312 : Immediate (acute) health hazard.

HAZARD CLASS : Not Listed

SARA SECTION 313 : Not Listed

NFPA HEALTH : 3

NFPA FLAMMABILITY : 0

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NFPA REACTIVITY : 1

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : C: Corrosive, Xn: Harmful.
DSD/DPD RISK (R) PHRASES : R34: Causes severe burns.
 R22: Harmful if swallowed.
DSD/DPD SAFETY (S) PHRASES : S1/2: Keep locked up and out of reach of children.
 S18: Handle and open containers with care.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
 S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
 S61: Avoid release to the environment.
 S64: If swallowed, rinse mouth with water if victim is conscious.
DSD/DPD HAZARD SYMBOL : C: Corrosive, Xn: Harmful



CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : Class E: Corrosive, Class D2B: Materials that cause other toxic effects (TOXIC).
DOMESTIC SUBSTANCES LIST (DSL) : Listed
INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.



SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Wesmar Co. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

IMDG : International Maritime Code for Dangerous Goods
DOT : US Department of Transportation
IATA : International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
NFPA : National Fire Protection Association (USA)
HMIS : Hazardous Materials Identification System (USA)
LC50 : Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
STOT : Specific Target Organ Toxicity
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