

SAFETY DATA SHEET



Version 5.0 Revision Date: 12/13/2018 SDS Number: 600000001541 Date of last issue: 10/18/2018
Date of first issue: 09/13/2018

SECTION 1. IDENTIFICATION

Product name : KLEAN WALL

Manufacturer or supplier's details

Company name of supplier : Niteo Products, LLC
Address : Dallas TX 75225
Email Address : EHS@niteoproducts.com
Telephone : 1-844-696-4836
Emergency telephone number : 1-800-424-9300 / 1-703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : CLEANER
Restrictions on use : Use only outdoors or in a well-ventilated area.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Corrosive to metals : Category 1
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 2
Skin corrosion : Category 1B
Serious eye damage : Category 1
Skin sensitisation : Category 1
Carcinogenicity : Category 1A
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Bone, Skeleton)

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : May be corrosive to metals.
Harmful if swallowed or if inhaled.
Fatal in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

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May cause cancer.
May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

Precautionary statements :

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not get in eyes, on skin, or on clothing.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
Absorb spillage to prevent material damage.

Storage:

Store locked up.
Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-----------|-----------------------|
| Sulfuric acid | 7664-93-9 | >= 10 - < 20 |

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| | | |
|---------------------------------|------------|---------------------|
| Phosphoric acid | 7664-38-2 | $\geq 5 - < 10$ |
| Hydrofluoric acid | 7664-39-3 | $\geq 2.5 - \leq 5$ |
| Sulfamic acid | 5329-14-6 | $\geq 1 - < 5$ |
| Ammonium bifluoride | 1341-49-7 | $\geq 1 - < 3$ |
| Disodium Cocoampho Dipropionate | 68604-71-7 | $\geq 0.1 - < 1$ |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.
If unconscious, place in recovery position and seek medical advice.
Keep patient warm and at rest.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Call a physician or poison control centre immediately.
Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Immediately flush contaminated skin with large quantities of cool running water for 5 minutes. Remove contaminated clothing while flushing contaminated skin. Immediately after washing, apply 2.5% calcium gluconate gel to all affected skin areas. (Note: If gel is not prepared within 5 minutes, continue flushing until gel is prepared.) The gel should be massaged into the affected skin by personnel wearing gloves to prevent skin contamination during first aid. Gel should be applied every 15 minutes and massaged continuously. Instead of calcium gluconate treatment, the affected areas may be soaked in iced 0.13% benzalkonium chloride solution (Zephiran chloride). Use ice cubes rather than shaved ice to prevent frostbite. If it is not practical to immerse affected area, towels should be soaked with iced 0.13% benzalkonium chloride solution and used as compresses for the burned area. Compresses should be changed every 2-3 minutes and continued until pain is relieved or victim is seen by a physician. If neither calcium gluconate nor benzalkonium chloride is available, use an iced saturated water solution of magnesium sulfate (Epsom salts), or if that is not available, iced 70% alcohol or ice water. Local anesthetics should be avoided since relief of pain indicates success of the treatment. ***Get medical attention as soon as possible.*** ::::NOTE::::Calcium gluconate gel can be prepared by mixing a 10 milliliter ampule of calcium gluconate with a 2-ounce tube of K-Y jelly (Johnson & Johnson). After a jar of this mixture has been opened and used, it should be discarded to prevent bacterial or chemical contamination.
Wash contaminated clothing before re-use.

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In case of eye contact : If skin irritation persists, call a physician.
: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.

If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.
Fatal in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure if swallowed.
Causes severe burns.
This product contains hydrofluoric acid (HF). Acute local effects from HF exposure are concentration-dependent. If untreated or exposure is prolonged, even dilute solutions of HF can cause delayed toxicity following penetration to subcutaneous tissue. Acute systemic toxicity is largely dependent upon the total amount of fluoride ion absorbed. Thus ingestion, skin contact or significant inhalation can cause severe systemic effects including electrolyte (calcium, magnesium, potassium) and acid-base abnormalities with resulting cardiovascular effects. Exposure of >5% of the body surface area with any concentration of HF may predispose the patient to development of hypocalcemia. Chronic exposure to less than acutely toxic amounts of HF is a low toxicity hazard. Repeated exposure and absorption of 10-80 mg of fluoride per day may produce systemic fluorosis.
This product contains fluoride. Acute systemic toxicity is largely dependent upon the total amount of fluoride ion absorbed. Ingestion, significant skin contact or inhalation can cause systemic effects including electrolyte (hypocalcemia, hypomagnesemia, hyperkalemia) and acid-base abnormalities with resulting cardiovascular effects. Repeated exposure and absorption of 10-80 mg of fluoride per day may produce systemic fluorosis.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Sulphur oxides
Oxides of phosphorus
Hydrogen fluoride

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Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Avoid breathing dust.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Avoid contact with skin and eyes.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Dispose of rinse water in accordance with local and national regulations.
Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Prevent unauthorized access.

Further information on storage stability : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------------|-----------|-------------------------------|--|-----------|
| Sulfuric acid | 7664-93-9 | TWA (Thoracic fraction) | 0.2 mg/m ³ | ACGIH |
| | | TWA | 1 mg/m ³ | NIOSH REL |
| | | TWA | 1 mg/m ³ | OSHA Z-1 |
| | | TWA | 1 mg/m ³ | OSHA P0 |
| Phosphoric acid | 7664-38-2 | TWA | 1 mg/m ³ | ACGIH |
| | | STEL | 3 mg/m ³ | ACGIH |
| | | TWA | 1 mg/m ³ | NIOSH REL |
| | | ST | 3 mg/m ³ | NIOSH REL |
| | | TWA | 1 mg/m ³ | OSHA Z-1 |
| | | TWA | 1 mg/m ³ | OSHA P0 |
| | | STEL | 3 mg/m ³ | OSHA P0 |
| | | Hydrofluoric acid | 7664-39-3 | TWA |
| | | C | 2 ppm (Fluorine) | ACGIH |
| | | TWA | 3 ppm 2.5 mg/m ³ | NIOSH REL |
| | | C | 6 ppm 5 mg/m ³ | NIOSH REL |
| | | TWA | 3 ppm | OSHA Z-2 |
| | | TWA | 3 ppm (Fluorine) | OSHA P0 |
| | | STEL | 6 ppm (Fluorine) | OSHA P0 |
| Ammonium bifluoride | 1341-49-7 | TWA | 2.5 mg/m ³ (Fluorine) | OSHA Z-1 |
| | | TWA | 2.5 mg/m ³ (Fluorine) | ACGIH |
| | | TWA | 2.5 mg/m ³ (Fluorine) | OSHA P0 |

Hazardous components without workplace control parameters

| Components | CAS-No. |
|----------------------------------|------------|
| Sulfamic acid | 5329-14-6 |
| Disodium Cocoampho Di-propionate | 68604-71-7 |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|-------------------|-----------|---------------------|---------------------|---|---------------------------|--------------|
| Hydrofluoric acid | 7664-39-3 | Fluoride (Fluorine) | Urine | Prior to shift (16 hours after exposure ceases) | 2 mg/l | ACGIH BEI |

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|---------------------|-----------|---------------------|-------|--|--------|-----------|
| | | Fluoride (Fluorine) | Urine | End of shift (As soon as possible after exposure ceases) | 3 mg/l | ACGIH BEI |
| Ammonium bifluoride | 1341-49-7 | Fluoride (Fluorine) | Urine | Prior to shift (16 hours after exposure ceases) | 2 mg/l | ACGIH BEI |
| | | Fluoride (Fluorine) | Urine | End of shift (As soon as possible after exposure ceases) | 3 mg/l | ACGIH BEI |

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:
 Impervious clothing
 Safety shoes
 Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 Avoid contact with skin, eyes and clothing.
 When using do not smoke.
 Wash hands before breaks and immediately after handling the product.
 When using do not eat or drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
 Colour : green
 Odour : characteristic

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pH : Expected 3

Melting point/freezing point : No data available

Boiling point/boiling range : No data available
Flash point : > 93.4 °C

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Relative vapour density : No data available

Density : > 1 g/cm³

Solubility(ies)
Water solubility : soluble

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Hazardous polymerisation does not occur.

Conditions to avoid : No data available

Incompatible materials : Strong oxidizing agents
Strong reducing agents

Hazardous decomposition products : Oxides of phosphorus
Sulphur oxides
Hydrogen fluoride

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Harmful if swallowed or if inhaled.
Fatal in contact with skin.

Product:

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- Acute oral toxicity : Acute toxicity estimate: 1,250 mg/kg
Method: Calculation method

Remarks: Causes digestive tract burns.
- Acute inhalation toxicity : Acute toxicity estimate: 10 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: 99.78 mg/kg
Method: Calculation method

Components:

Sulfuric acid:

- Acute oral toxicity : LD50 (Rat): 2,140 mg/kg

Phosphoric acid:

- Acute oral toxicity : LD50 (Rat): ca. 2,600 mg/kg
Acute dermal toxicity : LD50 (Rabbit): 2,740 mg/kg

Hydrofluoric acid:

- Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.
- Acute dermal toxicity : LDLo (Mouse): 500 mg/kg
Assessment: The component/mixture is extremely toxic after single contact with skin.

Sulfamic acid:

- Acute oral toxicity : LD50 (Rat): 3,160 mg/kg
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Ammonium bifluoride:

- Acute oral toxicity : LD50 (Rat): ca. 130 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Method: OECD Test Guideline 435
Result: Corrosive after 3 minutes to 1 hour of exposure

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Remarks: Both the liquid and vapor can cause severe burns which may not be immediately painful or visible. Pain may become gradually more severe, possibly taking 1-24 hours to become noticeable. These burns can be very deep, possibly causing bone damage, and are very slow to heal. Even solutions containing 2% or less hydrogen fluoride or other inorganic fluoride compounds can cause burns and tissue damage.

Components:

Sulfuric acid:

Result: Causes severe burns.

Phosphoric acid:

Species: Rabbit

Result: Corrosive after 1 to 4 hours of exposure

Hydrofluoric acid:

Result: Corrosive after 3 minutes or less of exposure

Sulfamic acid:

Result: Severe skin irritation

Ammonium bifluoride:

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

Sulfuric acid:

Result: Irreversible effects on the eye

Assessment: Corrosive

Phosphoric acid:

Result: Irreversible effects on the eye

Assessment: Corrosive

Hydrofluoric acid:

Result: Irreversible effects on the eye

Assessment: Corrosive

Sulfamic acid:

Result: Irritating to eyes.

Ammonium bifluoride:

Result: Irreversible effects on the eye

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Disodium Cocoampho Dipropionate:

Result: Irritating to eyes.

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks: May cause allergic skin reaction.

Components:**Disodium Cocoampho Dipropionate:**

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:**Sulfamic acid:**

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

Ammonium bifluoride:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Result: negative

Genotoxicity in vivo : Result: In vivo tests did not show mutagenic effects
 Remarks: Information given is based on data obtained from similar substances.

Carcinogenicity

May cause cancer.

Components:**Sulfuric acid:**

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies

IARC

Group 1: Carcinogenic to humans

Sulfuric acid

7664-93-9

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OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Known to be human carcinogen

Sulfuric acid 7664-93-9

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

Components:

Ammonium bifluoride:

Exposure routes: Ingestion

Target Organs: Bone, Skeleton

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Remarks: Information taken from reference works and the literature.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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International Regulations

IATA-DGR

UN/ID No. : UN 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(Sulfuric Acid, Hydrofluoric acid)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 (6.1)
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851

IMDG-Code

UN number : UN 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(Sulfuric Acid, Hydrofluoric acid)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 (6.1)
EmS Code : F-A, S-B
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 2922
Proper shipping name : Corrosive liquids, toxic, n.o.s.
(Sulfuric Acid, Hydrofluoric acid)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 (6.1)
ERG Code : 154
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------------|-----------|--------------------|-----------------------------|
| Hydrofluoric acid | 7664-39-3 | 100 | 2000 |
| Methanol | 67-56-1 | 100 | 100 (F003) |

SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
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|-------------------|-----------|-----|------|
| Hydrofluoric acid | 7664-39-3 | 100 | 2000 |
|-------------------|-----------|-----|------|

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

| Components | CAS-No. | Component TPQ (lbs) |
|-------------------|-----------|---------------------|
| Sulfuric acid | 7664-93-9 | 1000 |
| Hydrofluoric acid | 7664-39-3 | 100 |

SARA 311/312 Hazards : Corrosive to metals
 Acute toxicity (any route of exposure)
 Respiratory or skin sensitisation
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|-------------------|-----------|----------------|
| Sulfuric acid | 7664-93-9 | >= 10 - < 20 % |
| Hydrofluoric acid | 7664-39-3 | >= 5 - < 10 % |

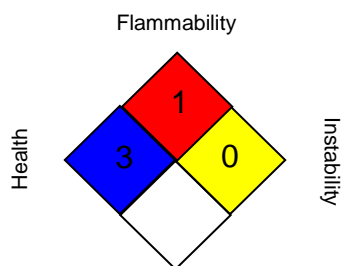
California Prop. 65

WARNING: This product can expose you to chemicals including Sulfuric acid, Formaldehyde, Dichloroacetic acid, which is/are known to the State of California to cause cancer, and Methanol, Dichloroacetic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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