

1.1 Products and Company identification:

Product Name: **MDR**
Product form.....Mixture
Product code:

1.2 Relevant identifier

Use of substance/ mixtureAcid cleaner

1.3 Details of supplier of SDS

International Stoneworks, Inc.
8650 Fairbanks N. Houston Rd.
Houston, TX. 77064
sales@intlstoneworks.com

Validation date: 08 / 01 / 2018

2. Hazards Identification

2.1 Hazardous Classification

Skin Corr. 1A H314

2.2 Label Elements

Hazardous Pictogram



Signal

Word.....'Danger/ Caution

2.3 Hazardous Statements.....H314 - Causes severe burns and eye damage.

Precautionary Statements.....P260 - Do not breathe dust/ mist/spray.
P264 - Wash hands and forearms thoroughly after handling.
P280 - Wear protective gloves/eye protection/face protection.
P301+P330+P331- If swallowed rinse mouth. Do **NOT** induce vomiting.
P303+P361+P353- If on skin (or hair): Immediately take off all contaminated clothing. Rinse with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep 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/doctor.
P321 - Specific treatment (see First aid measures on this label).
P363 - Wash contaminated clothing before use.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

3. Composition Information

Component	CAS Registry #	Component (%)	Classification (GHS-US)
Phosphoric acid, conc=85%	7664-38-2	20-30	Skin Corr. 1B, H314
Ammonium Hydrogen Di-Fluoride	1341-49-7	1-5	Acute Tox. 3 (oral), H301 Skin Corr. 1B, H314
2-Butoxyethanol	111-76-2	1-5	Flam. Liq. 4, H227 Acute Tox. 4 (oral), H302 Acute Tox. 3(dermal), H311 Acute Tox. 2(Inhalation gas), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Proprietary Surfactant	N/A	<1%	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

4. First-aid Measures

4.1 Description of first aid measures

First-aid measures general:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible).

First-aid measures after inhalation:

Remove to fresh air at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact:

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measure after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor or physician.

First-aid measure after ingestion:

Rinse mouth. Do **NOT** induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries:

Causes sever skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, dry powder, carbon dioxide, water spray and sand.

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2 Special hazards arising from substance or mixture

Reactivity:

Thermal decomposition generates: Corrosive vapors.

5.3 Advice for firefighters

Firefighting instructions:

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measure

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective Equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Heading 8, exposure controls and personal protection

7. Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process areas to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing.
Wash hands and forearms thoroughly after handling as with any chemicals.

Hygiene measures:

7.2 Conditions for safe storage, including any incompatibilities

Technical measures:

Storage conditions:

Comply with applicable regulations.
Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.
Strong bases. Strong Acids.
Source of ignition. Direct sunlight.

Incompatible Products:

Incompatible Materials:

7.3 Specific end use(s)

No additional information available.

8. Exposure controls and personal protection

8.1 Exposure controls

Personal protective equipment:

Hand protections:

Eye protection:

Foot Protection:

Skin and body protection:

Respiratory protection:

Other information:

Avoid all unnecessary exposure.

Wear protective gloves/eye protection/face protection/protective gloves.

Chemical goggles or face shield.

Wear suitable work boots.

Wear suitable protective clothing

wear appropriate mask.

Do not eat, drink or smoke during use.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Blue

Odor: mild odor

Solubility in water: soluble in water, 63g/100mL

Specific Gravity: 1.03

pH: 2

Boiling Point (F°): Approx. 212

Flash Point (F°): ≥ 200

Vapor Pressure: N/A

10. Stability and Reactivity

10.1 Reactivity

Thermal decomposition generates: Corrosive Vapors.

10.2 Chemical Stability

Stable under normal conditions. Not established.

10.3 Possibility of hazardous reactions

Not established.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong acids. Strong Bases.

10.6 Hazardous decomposition products

Fume. Carbon monoxide. Carbon Dioxide. Thermal decomposition generates: Corrosive Vapors.

11. Toxicology Information

Acute toxicity:

Not classified

2-butoxyethanol (111-76-2)	
ATE US (oral)	530.0000000000 mg/kg body weight
ATE US (dermal)	435.0000000000 mg/kg body weight
ATE US (gases)	450.0000000000 ppmV/4h
ATE US (vapors)	2.1700000000 mg/l/4h
ATE US (dust, mist)	2.1700000000 mg/l/4h

2-propanol (67-63-0)	
LD50 oral rat	5045 mg/kg (Rat; ECD 401; Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 14,4; Rabbit)
LC50 inhalation rat (mg/l)	73mg/l/4h (Rat)
ATE US (oral)	5045.0000000000 mg/kg body weight
ATE US (dermal)	12870.0000000000 mg/kg body weight
ATE US (vapors)	73.0000000000 mg/l/4h
ATE US (dust, mist)	73.0000000000 mg/l/4h

Skin Corrosion/irritation

Causes severe skin burns and eye damage.

pH: 2

Serious eye damage/irritation:

Not classified

pH: 2

Respiratory or skin sensitization:

Not classified

Germ mutagenicity:

Not classified

Carcinogenicity:

Not classified

2-butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified
Potential Adverse human health effects; and symptoms	Based on available data, the classification criteria are not met.

12. Ecological Information

12.1 Toxicity

Ammonium Hydrogen Di-Fluoride (1341-049-7)

LC50 fish	562 mg/l (96 h; Brachydanio rerio)
LC50 other aquatic organisms 1	10-100, 96 h
LC50 fish 2	237 mg/l (96 h; Brachydanio rerio)
Threshold limit other aquatic organisms 1	10-100; 96 h

Phosphoric Acid, conc=85% (7664-38-2)

LC50 fish	138 mg/l (96 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100-1000 mg/l (96 h; Protozoa; Pure substance)
LC50 fish 2	600 mg/l (Pisces; Pure substance)
LC50 other aquatic organisms 2	240 mg/l (Pure substance)
TLM fish 1	138 ppm (24 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	100-1000 (96 h; Protozoa; Pure substance)
Threshold limit other aquatic organisms 2	240 mg/l (Pure substance)

2-butoxyethanol (111-76-2)

LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Normal concentration)
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Normal concentration)
EC50 Daphnia 2	1341 ppm (96 h; Lepomis macrochirus)
LC50 fish 2	1720 mg/l (24 h; Daphnia magna)
TLM fish 1	100-1000, 96 h; Pisces
TLM other aquatic organisms 1	100-1000, 96 h
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	35 mg/l (192 h; microcystis aeruginosa)

13. Disposal Considerations

13.1 Waste treatment methods

Waste disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/containers in accordance with local/regional/national/international regulations.

Ecology - waste materials:

Avoid release into the environment.

14. Transport Information

In accordance with DOT regulations

Transport document description:

NA1760 Compounds, cleaning liquid Contains Phosphoric acid, 8, III
1760

UN-No.(DOT):

NA1760

DOT NA no.:

5000lbs (2270 Kg)

Reportable Quantities:

Proper Shipping Name (DOT):

Compounds, cleaning liquid
Contains Phosphoric Acid

DOT Hazard Classes:

Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT):

8 - Corrosive



DOT Symbols:

D - Proper shipping name for domestic use only, or to and from Canada, G- Identifies PSN requires technical name

Packing group (DOT):

III - Medium Danger

DOT Special Provisions (49 CFR 172.102):

B2 – MC 300, MC 301, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.
IB2 – Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional requirement: Only liquids with vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
N37 – This material may be shipped in an integrally-lined fiber drum (1G) which meets general packaging requirements of subpart B of part 137 of this subchapter, the requirement of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the 172.101 table.
T11 – 6 178.273(d)(2) Normal..... 178.275(d)(3)
TP2 – a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperatures in degrees Celsius of the liquid during filling, and a is the mean coefficient of the cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees Celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where d15 and d50 are the densities (in units of mass per volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
TP27 – A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 time the MAWP.

15. Regulatory Information

15.1 US Federal Regulations

Ammonium Hydrogen Di-Fluoride (1341-049-7)	
Listed in the United States TSCA (Toxic Substances Control Act) inventory	
Not listed on the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPAs List of Lists):	100lb
Phosphoric Acid, conc=85% (7664-38-2)	
Listed in the United States TSCA (Toxic Substances Control Act) inventory	
Not listed on the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPAs List of Lists):	5000lb

15.2 Regulations

15.2.1 International

CANADA

No additional information is available.

EU-Regulations

No additional information is available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not Classified

15.2.2 National

No additional information is available.

16. Other Information

HMIS RATINGS

Health:	[3] Serious hazard – Major injury likely unless prompt action is taken and medical treatment is given
Flammability Classification:	[0] Minimal hazard
Reactivity:	[1] Slight hazard
Pers. Protection:	[E]

Disclaimer:

This information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of publication. Information given is design only as guidance for safe handling use, processing, storage, transportation, disposal and is not to be considered a warranty or quality specification. The information relates only to specific material designated and may not be valid for such materials used in combination with any other material or in any process not a specified in this text.