

**Section 1 - Identification**

Product Name: **Turbo-Kleen™** An inorganic acid cleaner. Revised: 5/9/23

<b>Damon Industries, Inc.</b> <b>12435 Rockhill Ave NE</b> <b>Alliance, Ohio 44601</b> <b>U.S.A.</b>	<b>1-800-362-9850</b> <b>1-330-821-5310</b> <b>1-330-821-6355 Fax</b> <b>info@DamonQ.com</b>	<b>24 HOUR EMERGENCY RESPONSE</b> <b>1-800-535-5053 (U.S. &amp; Canada)</b> <b>001-352-323-3500 (International)</b>
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**Section 2 - Hazards Identification**

Hazard categories: Corrosive to Metals 1; Skin Corrosion/Irritation 1; Eye Corrosion/Irritation 1; Skin Sensitization 1, Aspiration Hazard 2

Signal word: Danger

Hazard statements: May be corrosive to metals.  
 Causes severe skin burns and serious eye damage.  
 May cause an allergic skin reaction.  
 May be harmful if swallowed and enters airways.

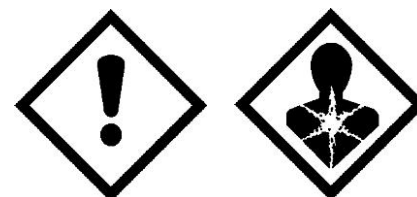


Pictograms: Corrosion, Exclamation, Health

Precautionary statements

Prevention

Keep only in original container  
 Do not breathe vapors.  
 Wash hands thoroughly after handling.  
 Wear protective gloves such as rubber, latex, or PVC.  
 Wear protective clothing such as an apron.  
 Wear eye protection such as safety glass with side shields.  
 Contaminated work clothing should not be allowed out of the workplace.



Response

**IF SWALLOWED:** Do NOT induce vomiting. Immediately call a POISON CENTER.  
**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.  
**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.  
**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.  
 Absorb spillage to prevent material damage.

Storage

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

Disposal

Dispose of contents in accordance with local, regional, national and international regulations.

**Section 3 - Composition / Information on Ingredients**

Ingredient	C.A.S. No.	Concentration
Water	7732-18-5	67%
2-Butoxyethanol	111-76-2	10%
Terpene hydrocarbons, by-product	273-309-3	8%
Sulfuric acid	7664-93-9	5%
Polyethylene glycol octylphenyl ether	9036-19-5	5%
Alcohols, C9-11, ethoxylated	68439-46-3	4%

The remaining ingredients are not reportable as described in Appendix D to Sec. 1910.1200 Table D.1.

**Section 4 - First Aid Measures**

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, lifting upper and lower eyelids occasionally. Immediately call a POISON CENTER.  
**Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse skin with water or shower. If redness, irritation or other symptoms exist after flushing, get medical attention immediately. Wash clothing before wearing again. Throw away contaminated shoes.

**Inhalation:** Move the affected person to fresh air. If irritation, coughing or other symptoms persist, get medical attention.

**Ingestion:** If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping the person warm and quiet. Get medical attention immediately.

### Section 5 - Fire-Fighting Measures

**Extinguishing Media:** Any except carbonate dry powder due to reactivity.

**Special Fire Fighting Procedures:** None.

**Unusual Fire And Explosion Hazards:** Contact with reactive metals will form hydrogen gas.

### Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Use adequate personal protective equipment. Spills of 1 gallon or less can be washed to the sanitary sewer with plenty of water. For larger spills, dike to prevent entry into sewers and absorb spill with an inert material (vermiculite, dry sand, or cloth). Put collected material into clean pails or drums for reclamation or disposal. Wash the area with an alkaline detergent or a 50% solution of baking soda. Wash residue to a sanitary sewer with a large quantity of water.

### Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet and on label. Keep container closed. Store separate from alkalis, oxidizers and reactive metals in a cool, well ventilated place. Remove leaking containers. Product will etch glass, ceramic and polished or painted surfaces.

**Bleach Warning:** If this product contacts bleach, it could produce a dangerous gas (chlorine).

### Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
2-Butoxyethanol	111-76-2	10%	50 ppm(1), 5 ppm (2), 20 ppm (3), 25 ppm (4)	75 ppm(4)	-
Sulfuric acid	7664-93-9	5%	1 mg/m <sup>3</sup> (1,2,4), 0.2 mg/m <sup>3</sup> (3)	3 mg/m <sup>3</sup> (3,4)	-

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hour Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous  
Ingredients not shown either have no known limits or are below reportable levels in section 3 above.

**Ventilation:** If used indoors, provide good room ventilation. Use mechanical exhaust if required to maintain airborne concentrations below the exposure limits.

**Respiratory Protection:** If the exposure limit will be exceeded or fumes are irritating during use, wear a NIOSH approved respirator with an acid vapor cartridge.

**Protective Gloves:** Use rubber, latex or PVC gloves. Do not use disposable latex gloves. Disposable Nitrile gloves are good.

**Eye Protection:** Wear safety glasses with side shields or chemical goggles or face shield depending on the amount of exposure anticipated.

**Other Protective Equipment:** If splashing is likely to occur, wear aprons, protective clothing or boots as the situation calls for. An eyewash station and safety shower should be located within 10 seconds travel time. Train users in how to properly use these safety items.

### Section 9 - Physical and Chemical Properties

<b>Appearance and Odor:</b> A tan liquid with a pine odor.	
<b>Odor Threshold:</b> Not Available	<b>Vapor Pressure:</b> Not Available
<b>pH:</b> concentrate 1.0 ± 0.5	<b>Vapor Density:</b> Not Available
<b>Melting Point:</b> Not Available	<b>Relative Density (Specific Gravity):</b> 1.03
<b>Freezing Point:</b> Not Available	<b>Solubility(ies): Water:</b> 100%
<b>Boiling Point, Initial:</b> 220° F.	<b>Partition coefficient:</b> Not Available
<b>Boiling Range:</b> Not Available	<b>Auto-ignition Temperature:</b> Not Available
<b>Flash Point:</b> None. (ASTM D-56 closed cup)	<b>Decomposition Temperature:</b> Not Available
<b>Evaporation Rate:</b> ~1 (Water = 1)	<b>Viscosity:</b> Same as water.-
<b>Flammability: (solid, gas):</b> Not Applicable	<b>Volatiles Percent:</b> 94%
<b>Upper Explosive Limit:</b> None	<b>V.O.C.:</b> 22.7% - 230 grams/liter
<b>Lower Explosive Limit:</b> None	

### Section 10 - Stability and Reactivity

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals.

**Hazardous Decomposition Products:** None

### Section 11 - Toxicological Information

**Primary Routes of Entry:**  Skin contact;  Skin absorption;  Inhalation;  Ingestion

**Potential Health Effects:**

**Eyes** - causes severe damage and may cause blindness very rapidly.

**Skin** - concentrate causes severe irritation which may become serious burns with permanent damage if not rinsed off soon. Dilutions cause irritation, possibly severe, and may lead to dermatitis with repeated contact.

**Swallowing** - causes severe damage to mucous membranes and possibly deep tissue damage and gastrointestinal burns.

**Breathing** - inhalation of vapors causes irritation of the mouth, nose, throat and respiratory passages. Inhalation of mist and prolonged or excessive inhalation of vapors may cause severe damage to the respiratory system.

**Target Organs:** None.

**Section 12 - Ecological Information**

Do not dispose of in the environment.

**Section 13 - Disposal Considerations**

**Waste Disposal Method:** Up to 1 gallon may be washed to the sanitary sewer with a large amount of water. For larger quantities, dispose of the material in accordance with local, state and federal regulations.

**Section 14 - Transport Information**

D.O.T.: UN1760, Corrosive liquids, n.o.s., 8, PG II (Contains sulfuric acid)

**Section 15 - Regulatory Information**

The components of this product are on the TSCA inventory of chemical substances.

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
2-Butoxyethanol	111-76-2	10	2.30
Sulfuric acid	7664-93-9	4.9	1.08

**Section 16 - Other Information**

**NFPA:** H:3 F:0 I:0      **HMIS® III:** H:3 F:0 P:1      These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 11/23/15. Revised Section 6 and 13.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.