

# Material Safety Data Sheet

Number: **DMN0347**

Product Name: **Turbo-Kleen™**

Inorganic acid cleaner.

Revised: 4/12/11

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## Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Sulfuric acid	7664-93-9	2 - 10%	No
2-Butoxyethanol	111-76-2	2 - 10%	No
Pine Terpenes	68956-56-9	10 - 30%	No

## Section 3 - Hazards Identification

**Emergency Overview:** Liquid is corrosive to all body parts. Excessive inhalation of vapors causes irritation. Product is water based and does not burn. Contact with reactive metals will form hydrogen gas. Product has a low pH and more than 1 gallon should not be allowed into sewers (sanitary or storm) at one time without neutralizing. Will release chlorine gas if mixed with bleach. A tan liquid with a pine odor.

**Health Hazards:** Corrosive

**Physical Hazards:** Reactive

**Primary Routes of Entry:**  Through Skin  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.

## Section 4 - First Aid Measures

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

**Skin Contact:** Flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes. 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

**Flash Point:** None (ASTM D-56 closed cup)

**Lower Explosive Limit:** Not Applicable

**Upper Explosive Limit:** Not Applicable

**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 spread soda ash (sodium carbonate) over the spill to neutralize and absorb. Collected material into clean pails or drums. Wash residue to a sanitary sewer with a large quantity of water. Wash the area with an alkaline detergent or a 50% solution of baking soda.

## 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 or a cleaner containing bleach, it could produce a dangerous gas (chlorine). If your facility uses bleach, or a cleaner containing bleach, look at the MSDS on the bleach product now, to learn what to do if chlorine is accidentally produced. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan. Contact Damon Industries if more information is needed.

**Section 8 - Exposure Controls / Personal Protection**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Sulfuric acid	7664-93-9	2 - 10%	1 mg/m <sup>3</sup> (1,2,3,4)	3 mg/m <sup>3</sup> (3,4)	-
2-Butoxyethanol	111-76-2	2 - 10%	50 ppm(1), 25 ppm(3,4)	75 ppm(4)	-
Pine Terpenes	68956-56-9	10 - 30%	No limits have been established.		

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

**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**

**Boiling Point:** 220° F. **Vapor Pressure:** Not Available  
**Specific Gravity:** 1.012 **Vapor Density:** Not Available  
**Percent Volatiles:** 75% **Evaporation Rate:** < 1 (Water = 1)  
**Solubility In Water:** Complete **pH:** concentrate 0.5 ± 1.5  
**Appearance and Odor:** A tan liquid with a pine odor.

**Section 10 - Stability and Reactivity**

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals. **Hazardous Decomposition Products:** None

**Section 11 - Toxicological Information**

**Target Organs:** None.

**Section 12 - Ecological Information**

Do not dispose of concentrate 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. Larger amounts should be neutralized to within pH limits of your waste water system and then disposed of in the sanitary sewer. Check to see if absorbent material is hazardous waste in your area or not.

**Section 14 - Transport Information**

**D.O.T. Hazard Class:** Corrosive Liquid, N.O.S., 8, UN 1760, P.G. 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	0.9
Sulfuric Acid	7664-93-9	5	0.44

**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 5/12/05.

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.