

Material Safety Data Sheet

Number: **DMN0106**

Product Name: **Kleer[®] Concentrate**

A liquid glass cleaner concentrate.

Revised: 5/1/12

Damon Industries, Inc. Box 2120 Alliance, Ohio 44601 U.S.A.	1-800-362-9850 1-330-821-5310 1-330-821-6355 Fax info@DamonQ.com	INFOTRAC 24 HR. EMERGENCY RESPONSE 1-800-535-5053 (U.S. & Canada) 001-352-323-3500 (International)
---	---	---

Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Isopropyl Alcohol	67-63-0	> 60%	No
2-Methoxymethyl ethoxy propanol	34590-94-8	2 - 10%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is moderately irritating to the eyes and mildly irritating to the skin. Very flammable. A blue liquid with an isopropyl alcohol odor.

Health Hazards: Irritant

Physical Hazards: None

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

Potential Health Effects:

Eyes – concentrate causes moderate irritation, redness, tearing. Pain may be disproportionate to the level of irritation. Vapors may cause irritation, redness, tearing.

Skin - may cause irritation, drying and defatting. Skin contact may aggravate existing dermatitis.

Swallowing – May cause central nervous system depression, nausea, vomiting, facial flushing, low blood pressure or irregular heartbeats.

Breathing – light exposure on likely to be hazardous. Excessive inhalation of mist or vapors may cause irritation to the nose and throat. Extreme or prolonged inhalation (400ppm or over) may cause incoordination, confusion, low blood pressure, respiratory arrest or even death in very extreme cases.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for a few minutes, lifting upper and lower eyelids occasionally. Remove contact lenses after the first 1-2 minutes and continue flushing for a few minutes. If irritation persists, get medical attention.

Skin Contact: Rise thoroughly with plenty of water.

Inhalation: Move the person to fresh air. If irritation persists, get medical attention. If not breathing give artificial respiration and get medical attention immediately.

Ingestion: If swallowed, get medical attention immediately. Do not induce vomiting.

Section 5 - Fire-Fighting Measures

Flash Point: 54° F (12° C) ASTM D-56 Closed Cup.

Autoignition Temperature: 750° F (399° C)

Lower Explosive Limit: 2%

Upper Explosive Limit: 12%

Extinguishing Media: Any except direct water stream.

Special Fire Fighting Procedures: Burning liquids may be extinguished by dilution with water. Direct water stream may spread fire.

Unusual Fire And Explosion Hazards: Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Product or vapors are readily ignited by static discharge. Containers may rupture or explode when heated in a fire.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all sources of ignition. Take precautionary measures against static discharges. Dilute small spills with water to reduce flammability and wipe or mop up. Wear proper protective equipment. With larger spills, spread absorbent material such as oil dry to prevent spreading. If feasible, larger spills may also be diluted with water (1:1 or greater) to reduce flammability.

Section 7 - Handling and Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in direct sunlight. Keep away from heat and sources of ignition. Empty containers retain product residue and all precautions apply to them.

Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Percent	TWA(source)	STEL	Ceiling
Isopropyl Alcohol	67-63-0	> 60%	400ppm(1,2,4) 200ppm(3)	500ppm(2) 400ppm(3)	-
2-Methoxymethyl ethoxy propanol	34590-94-8	2 - 10%	no established limits are available		
(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=Canada TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous					

Ventilation: Use with adequate ventilation. Avoid enclosed or poorly ventilated areas.

Respiratory Protection: None when used in small quantities. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Gloves: With prolonged or frequent exposure wear rubber, latex or nitrile gloves. Disposable latex are acceptable for light exposures.

Eye Protection: Safety glasses with side shields or chemical goggles.

Other Protective Equipment: An eyewash station should be located within 10 seconds travel time of concentrate use/mixing areas.

Section 9 - Physical and Chemical Properties

Boiling Point: 180° F (82° C)

Specific Gravity: 0.88

Percent Volatiles: 100%

Solubility In Water: 100%

Appearance and Odor: Clear, blue liquid with an isopropyl alcohol odor.

Vapor Pressure: 33 mmHg @ 20 °C

Vapor Density: 2.1 (Air = 1.0)

Evaporation Rate: 7.7 (Water = 1)

pH: 8.0 ± 0.5

Section 10 - Stability and Reactivity

Incompatibility: Strong oxidizing agents, Acids

Hazardous Decomposition Products: None

Section 11 - Toxicological Information

Target Organs: None. LD₅₀, Rat: 6,714-8,286 mg/kg - LC₅₀, 8hr, Rat: 19,000 ppm

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Remove all sources of ignition. Soak up with inert absorbent material. Use spark-proof tools and explosion-proof equipment. Keep in suitable and closed containers for disposal. Take precautionary measures against static discharges. Do not dispose of concentrate in sewers.

Section 14 - Transport Information

D.O.T. Hazard Class: ISOPROPANOL, 3, UN1219, PG II.

Section 15 - Regulatory Information

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

Section 16 - Other Information

NFPA: H:1 F:3 I:0 **HMIS® III:** H:1 F:3 P:0 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 5/21/08. Updated hazard warnings, first aid, DOT and other information.

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.