

# MATERIAL SAFETY DATA SHEET



## I PRODUCT IDENTIFICATION

**MANUFACTURER'S NAME AND ADDRESS:** PROSOCO, Inc.  
3741 Greenway Circle  
Lawrence, KS 66046

**EMERGENCY TELEPHONE NUMBERS:**  
**8:00 AM – 5:00 PM CST Monday-Friday:** 785-865-4200  
**NON-BUSINESS HOURS (INFOTRAC):** 800/535-5053

**PRODUCT TRADE NAME:** Enviro Klean<sup>®</sup> Degreaser

## II HAZARDOUS INGREDIENTS

CHEMICAL NAME	(COMMON NAME)	CAS NO.	NFPA CODE	ACGIH TLV/TWA	OSHA PEL/TWA
Linear Primary Alcohol Ethoxylates	(Alcohol Ethoxylates)	34398-01-1	Not Available	Not established	Not established
1-Methoxy-2-Propanol	(Propylene Glycol Methyl Ether)	000107-98-2	1,3,0,-	100 ppm (TLV) 150 ppm (STEL)	100 ppm
Monoethanolamine	(Alkanolamine)	141-43-5	3,1,0,-	6 ppm	3 ppm
N-Methylpyrrolidone	(NMP)	872-50-4	2,2,0-	100 ppm	Not established
Quaternary Ammonium Compound	(Cationic surfactant)	61791-10-4	3,1,0,-	Not established	Not established
Dipropylene Glycol Methyl Ether	(DPM)	034590-94-8	0,2,0,-	Not established	Not established

## III PHYSICAL DATA

	BOILING POINT (°F)	VAPOR PRESSURE (mm Hg)	VAPOR DENSITY (Air = 1)	EVAPORATION RATE (Butyl Acetate = 1)
Linear Primary Alcohol Ethoxylates	> 350 °F	< 0.1 (@ 100°F)	15	N/A
1-Methoxy-2-Propanol	248.3°F	12.5 (@25°C)	3.12	.66
Monoethanolamine	339°F	.2 (@20°C)	2.1	.02
N-Methylpyrrolidone	396°F	.29 (@68°F)	3.40	.03
Quaternary Ammonium Compound	No data	33.0 (@68°F)	>1.0	Not applicable
Dipropylene glycol methyl ether	374°F	.41 (@25°C)	5.14	.02

  

	SPECIFIC GRAVITY	pH	SOLUBILITY IN WATER	APPEARANCE AND ODOR
Enviro Klean <sup>®</sup> Degreaser	1.03	12.0-12.4	100%	Clear amber liquid, mild citrus odor

## IV FIRE AND EXPLOSION HAZARD DATA

### EMERGENCY OVERVIEW

Enviro Klean<sup>®</sup> Degreaser is a clear amber liquid with a mild citrus odor. Contact with the eyes or skin may result in irritation. Always wear appropriate personal protective equipment when using this product.

**FLASH POINT (METHOD):** > 212° F (ASTM 3278)

**FLAMMABLE LIMITS:** Not applicable.

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical, or CO<sub>2</sub>

**SPECIAL FIRE FIGHTING PROCEDURES:** Fire fighters should be equipped with self-contained breathing apparatus and turn-out gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** There are no known unusual fire or explosion hazards.

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## V HEALTH HAZARD DATA

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**PRIMARY ROUTES OF EXPOSURE:** Eye and skin contact, as well as ingestion.

**CARCINOGEN INFORMATION:** Not listed (OSHA, IARC, NTP, ACGIH)

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Pre-existing skin and eye disorders may be aggravated by exposure to this product.

**EFFECTS OF OVER EXPOSURE: Acute:** Concentrate contact with eyes may cause burns. Contact with skin and upper respiratory tract may result in irritation. Ingestion may result in gastric disturbances.

**EYE CONTACT:** May irritate eyes, producing redness and swelling of the conjunctiva.

**SKIN CONTACT:** This product may cause skin irritation.

**INHALATION:** Mists or vapors may be irritating to upper respiratory tract, although this is not expected to be a relevant route of exposure.

**INGESTION:** Ingestion may cause damage to the mouth and esophagus.

### **EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT:** Immediately flush exposed area with water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Get immediate medical attention. If physician is not immediately available, continue flushing with water. Do not use chemical antidote.

**SKIN CONTACT:** Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing. Launder contaminated clothing before reuse.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:** Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and call emergency room or poison control for instructions on safely inducing vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

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## VI REACTIVITY DATA

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**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Extreme heat.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong acids and strong oxidizing agents.

**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:** Carbon monoxide and other unidentified organic compounds may be formed during combustion.

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## VII SPILL OR LEAK PROCEDURES

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**SPILL, LEAK, WASTE DISPOSAL PROCEDURES: CAUTION:** Wear appropriate protective safety equipment to prevent skin and eye contact. Dike area to contain spilled material and use inert absorbent or a wet-vac to pick up material for disposal. After all visible traces have been removed, flush the area with large amounts of water.

**WASTE DISPOSAL METHODS:** Based on Federal EPA solid waste definitions and waste water pretreatment guidelines, rinse water generated during the use of this material can be disposed of to sanitary sewer systems in most regions with approval of treatment plant operators. This material should not be permitted to enter storm sewers or surface waterways without specific permission of regulatory authorities. The product as supplied is not classified as a hazardous waste under federal regulations. Consult appropriate federal, state, and local regulatory agencies to ascertain proper disposal procedures.

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## VIII SPECIAL PROTECTION INFORMATION

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**RESPIRATORY PROTECTION:** NIOSH/MSHA approved respiratory protection should be worn in the absence of proper good ventilation and proper environmental control. A half-mask respirator with organic vapor cartridges is sufficient in most situations. If product mist is present, wear an approved dust/mist respirator to avoid irritant effect to lungs and upper respiratory tract. Respiratory protection program must be in accordance with 29 CFR 1910.134.

**VENTILATION:** Sufficient to maintain airborne concentrations as low as possible.

**PROTECTIVE CLOTHING:** Wear protective clothing and rubber boots as necessary to minimize contact. Choice of protective clothing reflects unique job-site and application methods.

**PROTECTIVE GLOVES:** Natural rubber or PVC.

**EYE PROTECTION:** Close fitting chemical safety goggles. Do not wear contact lenses because they may contribute to the severity of an eye injury. A face shield may also be used if a splashing hazard exists.

**OTHER PROTECTIVE EQUIPMENT:** An eyewash should be readily available in areas where concentrates are handled. Access to a safety shower or drench hose is recommend. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.133 and 29 CFR 1910.132.

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## IX SPECIAL PRECAUTIONS

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**WORK PRACTICES:** Proper work practices and planning should be utilized to avoid contact with workers, passersby, and non-masonry surfaces. Test all surfaces that may come in contact with product or rinse water to determine compatibility. Rinse off unintentional over spray with large quantities of clean water. Grass and plantings may be protected by running sprinklers to supply a continuous rinse. Do not atomize during application. Beware of wind drift. Always follow published application rates. See the Product Data sheet and label for specific precautions to be taken during use. Smoking, eating and drinking should be discouraged during the use of this product. Wash hands before breaks and at the end of a shift.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Wear appropriate safety equipment and clothing. Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist. Can cause irritation. Store in a cool, dry, well-ventilated place. Separate from acids and organic peroxides.

Never touch eyes or face with hands or gloves that may be contaminated with this product.

Keep containers closed when not dispensing product. Use care around spilled material because it will be slippery. Treat empty containers as if they were full.

**OTHER PRECAUTIONS:** Wash thoroughly after handling. Do not eat, drink, or smoke in work areas.

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## X REGULATORY INFORMATION

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**SHIPPING:** This product carries the proper shipping description '**Corrosive Liquid, N.O.S. (Monoethanolamine), 8, UN1760, III**' when shipped in factory 5 gallon containers or in air or international shipping for all other size containers. Gallon and quart sizes are classified as ORM-D for shipment via domestic ground transport.

**NATIONAL MOTOR FREIGHT CLASSIFICATION:** NMFC # 44157 Sub 3 Class Rate: 85

**SARA 313 REPORTABLE:**

CHEMICAL NAME	CAS	UPPERBOUND CONCENTRATION % BY WEIGHT
N-Methylpyrrolidone	872-50-4	5%

**CALIFORNIA PROPOSITION 65:** This product contains no chemicals known to the state of California to cause cancer.

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**XI OTHER**

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**MSDS Status:**           **Date of Revision:** February 7, 2005  
**For Product Manufactured After:** February, 2005  
**Changes:** Updated National Motor Freight classification, Section X  
**Item #:** 41060  
**Approved By:** Regulatory Department

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**DISCLAIMER:**

The information contained on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. **PROSOCO, Inc. expressly disclaims any warranty express or implied as well as any liability for any injury or loss arising from the use of this information or the materials described.** This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his unique application. This data relates only to the specific material designated and is not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize himself with all applicable regulations.

**DATE OF PREPARATION:** February 7, 2005