

## DESCRIPTION

**Ends Odor** is a concentrated green liquid, formulated with special deodorizers that neutralize offending odors. **Ends Odor** has some cleaning capability but works primarily as a cleaning solution additive that filters out the malodors associated with food, chemical processes, animals and smoke leaving behind a fresh minty scent.

**Ends Odor** is not a bactericide, fungicide or sanitizer but works to effectively counteract odor-causing chemicals. **Ends Odor** has a pleasant fragrance and is recommended for a wide variety of applications in hospitals, nursing homes, hotels, bathrooms, kitchens and any other areas where offensive odors are not acceptable.

## DIRECTIONS

**As an Odor Control Additive:** Use 8 ml of **Ends Odor** per litre of diluted cleaner you are using (1 oz/gal) (1:128), or more depending on odor control requirements.

**Carpet Cleaning Additive:** To eliminate smoke, urine, vomit, mildew, and other unpleasant odors, use 8 ml **Ends Odor** per litre of diluted carpet shampoo (1 oz/gal) (1:128), or more depending on requirements, in hot water extractors and shampoo machines.

**Automatic scrubbing machines:** Use 36 ml per 4.5 litre (1 oz/gal) (1:128) of rinse water in automatics, mopping tanks and buckets to eliminate "wet floor" odor.

**Rooms and spray applications:** Add 15 – 24 ml per 946 ml trigger sprayer (2 - 3 oz/gal) (1:64 - 1:42) of cold water. Spray lightly in air, on drapes, in corners, or on carpeting to destroy offensive odors. Very effective and will not stain sheets, drapes or clothing.

**For toilets, urinals, garbage receptacles and dumpsters:** Use full strength for urinals, toilets, garbage receptacles dumpsters to remove odors. Squirt a few drops of undiluted deodorant into bed pans and drainage bottles.

## PHYSICAL DATA

Appearance	Clear liquid
Color	Bright green
Foam	Low
Odor	Strong mint
pH	6.5 - 8.0



- Variety of Uses
- Fresh Mint Fragrance
- Professional Deodorizer

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **ENDS ODOR**

Product Use: *Malodor Counteractant.*

M-chem Technologies Inc.  
1607 Derwent Way  
Delta, BC V3M 6K8, Canada  
Phone: (604) 526-5655

WHMIS CODE: B2, D2B  
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.  
Hazard Class: Class 3, P.G. III  
UN Number: UN1993 (Ltd. Qty.)

**EMERGENCY PHONE**  
Canada: Canutec 613-996-6666  
U.S.A.: Chemtrec 800-424-9300

HMIS	
1	Health
2	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves  
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>ALCOHOL ETHOXYLATE</b>	68439-46-3	5.0-10.0	N/A	N/A
LD50 (oral rat) 1376 mg/kg				
LD50 (dermal rabbit) >2 g/kg				
<b>ISOPROPYL ALCOHOL</b>	67-63-0	1.0 - 5.0	400 PPM	400 PPM
LD50 (oral rat) 5,045 mg/kg				
LD50 (dermal) 12,800 mg/kg (Rabbit)				
LC50 No data				

## SECTION 3 – PHYSICAL DATA

**Color and Odor:** Clear green, mint fragrance. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 7.0 +/- 0.5  
**Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.005 @ 20°C  
**Coef. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** 23-61°C (73-142°F) (Flashpoint-Seta cc – ASTM D3828)  
**Sensitivity to Mechanical Impact:** None. **Flammable Limits:** N/D.  
**Extinguishing Media:** Water, dry chemical or alcohol foam, carbon dioxide. Use extinguishing medias suitable for surrounding areas.  
**Sensitivity to Static Discharge:** N/D. **Auto ignition Temperature:** N/D.  
**Conditions of Flammability:** N/D.  
**Unusual Fire and Explosion Hazards:** Slightly flammable in presence of oxidizing materials or open flame.  
**Hazardous Combustion Products:** Decomposition may produce oxides of carbon.  
**Special Fire Fighting:** Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus (SCBA) for large fires. For small fires, which may be easily extinguished by a portable fire extinguisher, the use of SCBA is optional. Use water spray to cool all nearby fire exposed surfaces.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions.  
**Hazardous Polymerization:** Will not Occur.  
**Incompatibility (material to avoid):** None known.  
**Hazardous Decomposition Products:** None known.

## SECTION 6 – TOXICOLOGICAL DATA

**Exposure Limits:** See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin and eye contact, inhalation.  
**Irritancy of Product:** Irritating to eyes. **Carcinogenicity:** None known.  
**Sensitization:** None known. **Mutagenicity:** None known.  
**Teratogenicity:** None known. **Reproductive Toxicity:** None known.  
**Name of Toxicological Synergistic Product:** None known.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation, dryness or dermatitis.  
**Effects of Acute Exposure to Product:** Product exposure may cause skin and eye irritation. Prolonged inhalation of vapors or mists may irritate respiratory tract causing headaches, nausea, central nervous system effects, etc. Ingestion may cause gastrointestinal discomfort, and symptoms similar to inhalation.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** Normally not required. However, if product is misted or sprayed, use a NIOSH/MSHA approved dust/mist respirator.  
**Ventilation:** Good general ventilation or local exhaust ventilation for concentrated spraying and misting in confined areas.  
**Protective Gloves:** Natural or butyl rubber, nitrile, or neoprene gloves.  
**Eye Protection:** Chemical goggles, safety goggles or glasses.  
**Protective Clothing and Equipment:** Normally not required.  
**Storage and Handling Procedures:** Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers.  
**Waste Disposal Method:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.  
**Special Shipping Information:** Store at temperature below 30°C and keep from freezing.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:**  
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division      PHONE: 604-526-5655      LAST UPDATE: 07/04/11  
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE