

**MATERIAL
SAFETY
DATA
SHEET**

hydrex

HARD SURFACE DISINFECTANT

1. Product Information

Product: Hydrex
Product Use: Intermediate level germicidal cleaner
Supplier: maxill inc.
80 Elm Street, St. Thomas, ON
Canada N5R 6C8

Product Codes: 60705 60019 – 4 L
60705 60018 – 700 mL
60705 61164 – Towelettes

Contacts: Head Office: (519) 631-7370 Fax: (519) 631-3388 Emergency 24 hour CANUTEC: (613) 996-6666

WHMIS Classification: CLASS D2(B)



CLASS E



2. Preparation Information

Date Prepared: 30 January 2008
Prepared by: Operations Department
Glossary of Terms: NAV – Not Available

Supersedes: 13 March 2007
Revision: 1
NAP – Not Applicable DG – Dangerous Goods

3. Hazardous Ingredients

<u>Ingredient</u>	<u>CAS</u>	<u>% Range</u>	<u>LD50 Oral</u> mg/kg Species	<u>LD50 Dermal</u> mg/kg Species	<u>LC50 Inhalation</u> ppm/4 h Species
Alkyl dimethyl benzyl ammonium Chloride (C ₁₂₋₁₈)	68391-01-5	0.1 – 1.0	> 750 Rat	NAV NAP	NAV NAP
Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride	85409-23-0	0.1 – 1.0	> 750 Rat	NAV NAP	NAV NAP
Butyl Carbitol	112-34-5	5 - 10	5660 Rat	2700 Rabbit	NAV NAP
Tetrasodium EDTA	64-02-8	1 - 5	3030 Rat	>5000 Rabbit	NAV NAP

4. Physical Data

Physical State: Liquid
Boiling Point: > 100°C
Appearance: Clear, colourless
Odour: Citrus / Fruity

Specific Gravity: 1.013
Freezing Point: Approx. 0°C
Evaporation Rate: < 1.0 (BuAc = 1)
Odour Threshold: NAV

Vapour Density: Approx. 1.0 (air = 1)
Vapour Pressure: Approx. 17 mm Hg
pH: 10.5 – 12.5
Coeff. of H₂O / Oil Distribution: NAV

5. Fire and Explosion Data

WHMIS CLASS B? No
Upper Explosion Limit: NAP
Lower Explosion Limit: NAP

Flash Point: > 94°C
Auto Ignition Temperature: NAV

Sensitivity to Static Charge: No
Sensitivity to Impact: No

Extinguishment Media: Product is not combustible. Use dry chemical, foam or CO₂ for a surrounding fire.

Conditions to Avoid: Avoid contact with acid and alkaline products, which may result in the formation of irritating ammonia vapours.

Hazardous Combustion Products: May emit toxic fumes of ammonia and carbon & nitrogen oxides if exposed to fire. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

6. Toxicological Properties

Route of Entry: Eyes, ingestion, inhalation and skin contact.

Effects of Acute Exposure:

Eyes: Causes moderate eye irritation with redness and swelling of the conjunctiva.

Skin: Can cause irritation, with discomfort and local redness and possible swelling.

Inhalation: Short-term harmful effects are not expected from vapour generated at ambient temperatures. Aerosols can be harmful if inhaled.

Ingestion: May cause irritation of mouth and throat, abdominal discomfort, nausea and vomiting.

LD50 Oral: 17848 mg/kg (Rat, calc.) **LD50 Dermal:** NAV **LC50 Inhalation:** NAV

Irritancy of Product: Eye and skin irritant. May be harmful if ingested.

Exposure Limit: NAV

Carcinogenicity: No

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6. Toxicological Properties (continued)

Sensitization to Product: Potential
Teratogenicity: No
Reproductive Toxicity: No
Mutagenicity: No
Effects of Chronic Exposure: NAV
Synergistic Materials: No

7. First Aid Measures

Eye Contact: Rinse immediately with water, remove contact lenses if any, and continue rinsing with water for at least 15 minutes while holding eyelids open. Consult a physician immediately.
Ingestion: Do not induce vomiting. If large amount occurs, give milk, egg whites, gelatin solution or large amounts of water to drink and call a physician immediately. Do not give anything by mouth if person is unconscious or convulsing.
Inhalation: Remove to fresh air. If breathing is difficult, consult a physician.
Skin Contact: Remove contaminated clothing and shoes. Wash skin well with soap and water. Wash clothing before wearing again. If irritation develops and persists, consult a physician.

8. Preventive Measures

Engineering Controls: General ventilation.
Handling Procedures: Avoid eye or skin contact.
Storage Requirements: Store in original container in a dry place at controlled room temperature, away from incompatible materials. Keep container closed when not in use.
Leak and Spill Procedure: Mop up excess spilled liquid. For small spills, collect with absorbent material such as paper, vermiculite or floor absorbent.
Waste disposal: Dispose of in accordance with applicable federal, provincial and municipal regulations.

Protective Equipment for Bulk Handling of Sealed Containers:

Respiratory: Not required under normal conditions of handling.
Use a NIOSH approved respirator (ammoniacal vapours) if mists or aerosols are generated.
Eyewear: Safety goggles are recommended.
Gloves: Impermeable gloves (rubber, synthetic) are recommended.
Footwear: Not required under normal conditions of handling.
Other: Eye wash fountains are recommended.

Protective Equipment for End-Users:

Respiratory: Not required under normal conditions of use.
Eyewear: Safety goggles.
Gloves: Impermeable gloves (rubber, synthetic).
Footwear: Not required under normal conditions of handling.
Other: Eye wash fountains are recommended.

9. Reactivity Data

Conditions of Instability: Stable
Incompatible Materials: Avoid contact with strong acids / alkalis and oxidizing / reducing agents.
Conditions of Reactivity: Stable
Hazardous Decomposition Products: Upon decomposition, this product may yield oxides of nitrogen and ammonia.

10. Special Shipping Information

<u>DG</u>	<u>Proper Shipping Name</u>	<u>TDG Hazard Class</u>	<u>UN Number</u>	<u>Packing Group</u>
No	NAP	NAP	NAP	NAP

