

HydroKem™ DGC

Degreaser Concentrate

DESCRIPTION: HydroKem™ DGC is specially formulated to provide a high foaming degreaser that is safe to use on most surfaces. Proprietary surfactant blends along with d-Limonene and other performance enhancers provide a highly active degreaser without the harsh corrosives associated with other high pressure degreasers.

CHARACTERISTICS: HydroKem™ DGC is red in color with a pleasant citrus fragrance when mixed. Our two part system allows for more surfactants to be incorporated in the final concentrate than competitive single-powder products.

HydroKem™ DGC dissolves completely in five gallons of water. While not required, a superior product will result from mixing with soft water. The mixed product remains stable and once mixed into solution will require no additional mixing. Our formula, when properly mixed will not clog chemical injectors or nozzles.

HydroKem™ DGC rinses freely without leaving residue behind.

INSTRUCTIONS: Fill a five gallon bucket half full of water and add the entire contents of the pail pack to the to the bucket - both the powder and the liquid components. Continue filling the five gallon pail the lowest ring on the outside of the pail. Using a mixing paddle stir continuously until the contents of the pail are clear and no powder can be seen on the bottom of the bucket (usually about two-minutes).

APPLICATION: Dilutions will vary depending on surface to be cleaned. Typically a ratio of 20:1 will yield best results. Heavier soil may require higher concentrations of degreaser. Results always improve when applied with hot water.

We recommend testing in an inconspicuous area for color fastness.

DO NOT allow the cleaner to dry on the surface.

Apply detergent from the bottom up to minimize waste and allow for the most dwell time. When washing do so from the bottom up and then rinse from the top down.

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Material Safety Data Sheet

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1 - MATERIAL IDENTIFICATION

Product Name: MTM-DEGREASER

Product Number: 87-00004

Chemical family: Mixture

Material Use of Occurrence: High Pressure Detergent

HMIS: Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: X

2 - HAZARDOUS INGREDIENTS

<u>ID CHEMICAL NAME</u>	<u>CAS No.</u>
A Surfactant Blend	Proprietary
B Triethanolamine	102-71-6
C d-Limonene	5989-27-5
D 2-Butoxyethanol	111-76-2

<u>ID OSHA /PEL</u>	<u>ACGIH/TLV</u>
A NA	NA
B 5 mg/m ³	5 mg/m ³
C NA	NA
D 240 mg/m ³	240 mg/m ³

3 - CHEMICAL AND PHYSICAL PROPERTIES

Specific Gravity: 0.93

pH : 7-8

Boiling Point: >212F

Freeze/Thaw: Stable

Cloud Point: N/A

Solubility in Water: Complete

Appearance: Red liquid

Odor: Citrus

4 - FIRE AND EXPLOSION DATA

Flash Point: >200 °F

Flammable Limits: LEL: NA UEL: NA

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: Hot organic chemical vapors may spontaneously ignite when mixed with air.

Extinguishing Media: As Appropriate for Surrounding Fire; Water Spray, Alcohol Foam, Carbon Dioxide, Dry Chemical

5 - REACTIVITY INFORMATION

Chemical Stability: Stable

Hazardous Polymerization: Does not occur.

Incompatibility: Avoid prolonged contact with metals such as zinc, magnesium, aluminum and galvanized metals. Avoid contact with oxidizers.

Hazardous Decomposition Products: Carbon monoxide, miscellaneous organic compounds, some possibly toxic.

6 - HEALTH HAZARD DATA

Carcinogen Status: No known components present in excess of 0.1% by weight are listed as carcinogens by IARC, NTP or OSHA. (triethanolamine: NTP is conducting a study of Diethanolamine due to evidence of liver and kidney cancer in male mice and liver cancer in female mice)

Inhalation: Repeated or excessive inhalation of vapors can cause irritation and damage to respiratory tissues.

Skin: Skin contact with product may cause irritation. Prolonged exposure may result in absorption of harmful amounts.

Eyes: Eye contact with product may cause irritation. Burns.

Ingestion: Ingestion may cause burns chest pain, nausea, vomiting, pain and/or excess fluid retention (edema). Swallowing large amounts are likely to cause injury.

7 - EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. Use artificial respiration and oxygen if needed. If irritation persists, seek medical attention.

Skin: Flush with large amounts of water. If irritation persists, seek medical attention.

Eyes: Flush with water for 15 minutes while holding eyelids open. Get medical attention promptly.

Ingestion: If swallowed, **DO NOT INDUCE** vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately. Never give anything by mouth to an unconscious person.

8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH approved equipment suitable for nuisance dust when airborne exposure is excessive. Provide ventilation to minimize exposure.

Protective Equipment: **Eyes:** Wear splash proof goggles where exposure is possible. **Skin:** Wear chemical resistant gloves, boots and clothing. Have convenient safety showers.

Inhalation: None normally required. Traces of ethylene oxide and/or propylene oxide could accumulate in headspace of drums. Not expected to result in any short or long term hazard. Users should comply with OSHA Standard (29 CFR 1910.1047) and monitor exposure levels.

9 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:

Do not allow escape into natural water or sanitary sewers. Absorb liquid material with inert absorbent and shovel into containers.

Waste Disposal Method: Dispose of in accordance with local, state and federal authorities.

Precautions to Be Taken in Handling and Storing: Keep containers closed tightly. Keep out of reach of children. Do not take internally. Use in a ventilated area.

10 - REGULATORY AND D.O.T. SHIPPING INFORMATION

Proper Shipping Name: Not DOT regulated.

Hazard Class: None.

ID Number: None.

Packaging Group: None

Label Requirements: None.

Reportable Quantity: None

TSCA Inventory: The components of this product are listed.

SARA 312 (defined in 40 CFR 370.2 "Hazard Category"): Acute health hazard / Chronic health hazard.

SARA 313 (per 40 CFR 372 "containing Toxic Chemicals"): diethanolamine (<1.5% by weight)

CERCLA Hazardous Substances (40 CFR par302-102a): diethanolamine (<1.5% by weight)

California Prop 65: Trace amounts of benzene and toluene.

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