

THETFORD CORPORATION -- AQUA KEM -- 4510-00-339-2930

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===== Product Identification =====

Product ID:AQUA KEM  
MSDS Date:05/31/1996  
FSC:4510  
NIIN:00-339-2930  
MSDS Number: CCMQK  
=== Responsible Party ===  
Company Name:THETFORD CORPORATION  
Address:7101 JACKSON RD  
City:ANN ARBOR  
State:MI  
ZIP:48103  
Country:US  
Info Phone Num:313-769-6000  
Emergency Phone Num:313-769-6000(CHEMTREC 800-424-9300)  
CAGE:DO910

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== Contractor Identification ==  
Company Name:THETFORD CORP  
Address:7101 JACKSON ROAD  
Box:City:ANN ARBOR  
State:MI  
ZIP:48106  
Phone:(734) 769-6000  
CAGE:61431  
Company Name:THETFORD CORPORATION  
Address:7101 JACKSON ROAD  
City:ANN ARBOR  
State:MI  
ZIP:48103  
Country:US  
Phone:734-769-6000  
CAGE:DO910

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===== Composition/Information on Ingredients =====

Ingred Name:FORMALDEHYDE (SARA 302/313) (CERCLA)  
CAS:50-00-0  
RTECS #:LP8925000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1048  
AC

GIH TLV:C 0.3 PPM, A2; 9596

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingrid Name:METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)

CAS:67-56-1

RTECS #:PC1400000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 200 PPM

ACGIH TLV:S,200PPM/250STEL; 96

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES

IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: CAN PRODUCE EYE DAMAGE & SKIN SENSITIZATION. HIGH INHALATION EXPOSURE MAY CAUSE BRONCHOPNEUMONIA, RESPIRATORY IRRITATION. CHRONIC: NOT MUTAGENIC, NOT TERATOGENIC. PROLONGED/REPEATED EXPOSURE TO VAPORS MAY CAUSE CANCER, CONTAINS FORMALDEHYDE-A KNOWN CARCINOGEN.

Explanation of Carcinogenicity:CONTAINS F [50-00-0] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALA

TION-RESPIRATORY IRRITATION, NAUSEA, WEAKNESS, HEADACHE. EYE-DAMAGE, SEVERE IRRITATION, BURNS. SKIN-SENSITIZATION, DISCOMFORT, RASH. POSSIBLE CARCINOGEN.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING DISEASES OF LUNGS, SKIN, EYES MAY HAVE INCREASED SUSCEPTIBILITY TO HAZARDS OF OVEREXPOSURE.

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===== First Aid Measures =====

First Aid:FLUSH AREA WITH LARGE AMOUNTS OF WATER. IRRIGATE EYES FOR A MINIMUM OF 15 MINUTES. IF SWALL

OWED, INDUCE VOMITING BY GIVING 2

GLASSES OF WATER & STICKING FINGER DOWN THROAT. FOR EYE CONTACT OR INGESTION, CALL PHYSICIAN.

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===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:137F,58C

Extinguishing Media:WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM FOR USE ON ALCOHOL.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NONE.

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===== Accidental Release Measures =====

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Spill Release Procedures:VENTILATE AREA. WEAR PROPER PERSONAL PROTECTIVE GEAR TO INCLUDE RESPIRATORY PROTECTION. CLEAN UP SMALL SPILLS WITH WATER. ABSORB WITH INERT MATERIAL. NEUTRALIZE REMAINDER WITH AMMONIA/WATER MIXTURE. M OP AREA WITH PLENTY OF WATER.  
Neutralizing Agent:WATER-AMMONIA MIXTURE.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT STORE ABOVE 110F. DO NOT FREEZE.  
Other Precautions:DO NOT GET LIQUID IN EYES OR ON SKIN. DO NOT INHALE VAPORS. WASH THOROUGHLY AFTER HANDLING.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.  
Ventilation:USE LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).  
Protective Gloves:RUBBER, P VC, NEOPRENE.  
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.  
Other Protective Equipment:PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. EYE WASH STATION & SAFETY SHOWER.  
Work Hygienic Practices:AVOID UNECESSARY AND PROLONGED EXPOSURE. AVOID BREATHING VAPORS.  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:F4  
Boiling Pt:B.P. Text:210F,99C  
Vapor Pres:17-20  
Vapor Density:1.03  
Spec Gravity:1.08  
pH:3.5-5  
Evaporation Rate & Ref

erence:>1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:BLUE LIQUID WITH PUNGENT ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

PHENOLS, STRONG MINERAL ACIDS, STRONG OXIDIZING AGENTS, STRONG ALKALIS.

Stability Condition to Avoid:ELEVATED TEMPRTATURES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY PRODUCE  
CARBON MONOXIDE AND CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OC  
CUR.

===== Disposal Considerations =====

Waste Disposal Methods:INCINERATION OR BIOLOGICAL TREATMENT IN  
STATE/FEDERAL APPROVED FACILITY.

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