

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
ACG

IH 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 I

ARC: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:INHALATION-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 SWALLOWED, 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, PVC, 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 & Refe

rence:>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 OCC
UR.

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

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

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