

# Material Safety Data Sheet

FORM NUMBER: 50085

Section I Product Information/Preparation Information				
Identity: Aqua-Kem		Product Use: Holding tank deodorant		
Manufacturer's Name Thetford Corporation		Emergency Telephone Number (734) 769-6000; (800) 424-9300 (CHEMTREC-24 hrs)		
Address 7101 Jackson Road Ann Arbor, Michigan 48103		Telephone Number for Information (734) 769-6000		
		Date Prepared 11-Jun-12	Prepared By Janis M. Thomson	
Section II - Hazardous Ingredients/Identify Information				
Hazardous Components	CAS #	OSHA PEL	ACGIH	Other Limits
Formaldehyde	50-00-0	0.75 ppm	0.3 ppm C*	STEL 2 ppm
Methanol (Skin)	67-56-1	200 ppm	200 ppm	STEL 250 ppm
*Ceiling				
Section III - Hazards Identification and Toxological Information				
<b>Emergency Overview:</b>				
Warning! Inhalation causes irritation of eyes, nose and throat. Toxic if ingested. Contact causes eye and skin irritation.				
Route(s) of Entry:				
<b>Inhalation:</b> Produces irritation to upper respiratory tract & eyes. May include discomfort such as nausea, headache or weakness.				
<b>Skin Contact:</b> Produces irritation with discomfort or rash.				
<b>Eye contact:</b> Causes irritation or severe burns.				
<b>Ingestion:</b> May be fatal or cause blindness if swallowed.				
Chronic effects:				
<b>Carcinogenicity:</b> Formaldehyde is listed as a carcinogen on IARC, NTP, OSHA, ACGIH. Carcinogenic potential is based on animal evidence. Human evidence shows no increased risk of cancer.				
<b>Teratogenicity:</b> Not teratogenic.				
<b>Mutagenicity:</b> Not mutagenic in whole animal systems. Mutagenic activity in bacterial & mammalian cell culture test symptoms.				
Sensitization to Material: Persons having preexisting diseases of the lungs, eyes or skin may have increased susceptibility to the hazards of excessive exposure. High inhalation exposure may cause bronchopneumonia and adema				
Synergistic materials: None known.				
Toxicological Information:		LD <sub>50</sub> : 1.47 mL/kg (oral, rat)	LC <sub>50</sub> :	
		LD <sub>50</sub> :	LC <sub>50</sub> :	
Section IV - First Aid Procedures:				
<b>Inhalation:</b> Remove victim to fresh air. Get medical attention if problems persist.				
<b>Ingestion:</b> Induce vomiting by giving 2 glasses of water and sticking finger down throat. Get medical attention immediately.				
<b>Skin:</b> Flush contacted area with large amounts of water. Wash with soap and water. Wash clothes before reuse.				
<b>Eyes:</b> Flush contacted area with large amounts of water. Irrigate eyes for a minimum of 15 minutes. Get medical attention immediately				
Section V - Fire and Explosion Hazard Data				
Flash Point (Method used) 137°F (58°C) (RTCC)		Flammable Limits by Volume Formaldehyde Methanol	LEL 7% 6%	UEL 73% 36.5%
Extinguishing Media Water, dry chemical, carbon dioxide or alcohol foam		Hazardous Combustion Products Carbon monoxide and carbon dioxide		
Special Fire fighting Procedures None.		Auto-ignition Temperature Not available	Sensitivity to Static Discharge Not available	
Unusual Fire and Explosion Hazards None		Conditions of Flammability Not flammable		
Explosion Data None		Sensitivity to Mechanical Impact Not available		

**Section VI - Personal Protective Equipment**

## Respiratory Protection:

Wear a vapor mask with organic vapor or formaldehyde cartridge for small spills. Use a self-contained breathing apparatus for uncontrolled releases.

## Engineering Controls:

Maintain adequate ventilation to keep vapors below exposure limit.

## Protective Gloves:

Rubber or neoprene gloves.

## Eye Protection:

Face shield with safety glasses or safety goggles.

## Other Protective Clothing or Equipment:

Protective clothing to avoid skin contact. Eyewash station and safety shower.

## Work/Hygienic Practices

Avoid unnecessary and prolonged contact. Avoid breathing vapors. Wash thoroughly after handling.

**Section VII - Accidental Release Measures/Preventative Measures**

## Steps to be Taken in Case Material is Released or Spilled:

Eliminate sources of ignition. Ventilate area well - use a fan if available. Clean up small spills with water. Soak up larger spills with noncombustible absorbent material. Place used absorbent in closed containers for disposal. Neutralize remaining odor with an ammonia, cold water mixture. Mop area with plenty of clean, cold water. Work for short periods of time (15 minutes).

## Waste Disposal Method

Dispose of in accordance with federal, state and local regulations.

## Precautions to be Taken in Handling and Storing

Do not store above 110° F (43°C). Do not freeze.

## Other Precautions

Do not get liquid in eyes or on skin. Do not inhale vapors. Wash thoroughly after handling.

**Section VIII - Physical/Chemical Characteristics**

Boiling Point 210° F (99°C)	Specific Gravity (H2O = 1) 1.08	Physical State Liquid
Vapor Pressure (mm Hg) Approximately 17-20 @ 25 °C	Melting Point Not applicable	Odor Threshold 0.05 - 1.0 ppm
Vapor Density (AIR = 1) 1.03	Evaporation Rate (Butyl Acetate = 1) Similar to water >1	Freezing Point Does not freeze
Solubility in Water Complete	pH 3.5 - 5.0	Coeff. Water/Oil Dist. Not determined

## Appearance and Odor

Blue liquid with pungent odor

**Section IX - Reactivity Hazards**

Stability  X Stable	Hazardous Polymerization  May Occur
Unstable	X Will Not Occur

## Incompatibility (Materials to Avoid)

Phenols, inorganic acids, strong oxidizing agents, strong alkalis

## Hazardous Decomposition or Byproducts

Thermal decomposition may produce carbon monoxide and carbon dioxide

## Conditions to Avoid

Elevated temperatures

**Section XI - Shipping Information**

## Transportation Status: Regulated

## ID Number:

UN1198

## Proper Shipping Name:

Formaldehyde solutions, flammable

## Hazard Class:

3

## Pkg Group:

III

**(Limited Quantity)**

Regulated under all modes of transportation as UN1198 in limited quantities. Consult the individual regulations, IATA via air, IMDG via water and TDG for Canadian shipping information. NOT PACKAGED FOR AIR TRANSPORT.