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## MATERIAL SAFETY DATA SHEET

**MANUFACTURER:** K & K Chemical Co.  
**TELEPHONE NO.:** (800) 327-0646  
**ADDRESS:** 1303 Industrial Drive, Royse City, TX 75189

**PRODUCT:** BIONIC LIFT STATION MAINTAINER™  
**PART NUMBER(S):** K-672

MSDS Prepared By: J. Austin Maglothin, Ph.D.  
Revision Date: April 2, 2010

### SECTION I - GENERAL

Chemical Name & Synonym Not Applicable  
Trade Name & Synonyms BIONIC LIFT STATION MAINTAINER™  
Chemical Family Hydrocarbon mixture  
Formula Trade Secret

### SECTION II - HAZARDOUS INGREDIENTS

Petroleum hydrocarbons CAS No. 64742-48-9  
D-limonene CAS No. 5989-27-5

### SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C) Not Determined  
Vapor Pressure (mm Hg @ 20°C) Not Determined  
Vapor Density (Air = 1) Not Determined  
Specific Gravity (H<sub>2</sub>O = 1) 0.787  
% Volatile by Volume 100%  
Evaporation Rate (H<sub>2</sub>O = 1) Estimated >1  
Solubility in Water Emulsifies  
Appearance and Odor Clear blue fluid with citrus odor  
Others None

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%)  
- LEL 0.7% (estimated)  
- UEL 9.8% (estimated)  
Flash Point (Method Used) 41.6°C (TCC)  
Extinguishing Media Foam, dry chemical or carbon dioxide  
Special Fire Fighting Procedures Smother to exclude air. Do not use water. Handle as an oil fire, Class B procedures. Self-contained breathing apparatus recommended.  
Unusual Fire & Explosion Hazards Combustible liquid - can form combustible mixtures at temperatures at or above flashpoint. Material can accumulate static charges which can cause an incendiary electrical discharge. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not expose such containers to heat, flame, sparks, static electricity or other sources of ignition: THEY MAY EXPLODE and cause injury or death.

### SECTION V - HEALTH HAZARD DATA

Route of Entry Eye contact, skin contact, inhalation, ingestion  
Carcinogenic Assessment This product contains ethylbenzene. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.  
Threshold Limit Value Not published, but ACGIH recommends a TWA of 100 ppm for Stoddard Solvent, which is chemically similar to this product  
Effects of Overexposure Eye contact: Slightly irritating but does not damage eye tissue  
Skin contact: May irritate and cause dermatitis  
Inhalation: Irritant; high vapor concentrations may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects  
Ingestion: Minimal toxicity  
Emergency & First Aid Procedures Eye contact: Flush with water for 15 minutes. Get medical attention if irritation persists.  
Skin contact: Wash with soap and water. Get medical attention if irritation persists.  
Inhalation: Remove patient to fresh air. Administer artificial respiration if breathing has stopped. Get immediate medical attention.  
Ingestion: DO NOT INDUCE VOMITING. Keep patient at rest. Get medical attention.

### SECTION VI - REACTIVITY DATA

Stability Stable  
Incompatibility (Materials to Avoid) Strong oxidizing agents  
Hazardous Decomposition Products None  
Hazardous Polymerization Will not occur

### SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled Prevent liquid from entering sewers, watercourses or low areas. Absorb with inert material. Consult an expert on disposal of recovered material.  
Waste Disposal Method Incinerate. Drain empty container well and allow to air-dry before discarding in an authorized local, state or federal landfill.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection None in normal use, but if vapor concentration becomes high, use self-contained breathing apparatus.  
Ventilation Local exhaust is usually adequate, but mechanical ventilation may be required to maintain vapor levels at acceptable levels.  
Protective Gloves Chemically resistant gloves such as neoprene, PVC or butyl.  
Eye Protection Chemical splash goggles or face shield  
Other Protective Equipment None required

### SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing Store in original containers for up to one year. Keep closed when not in use. Protect from high heat. Usual precautions for flammable liquids.  
Other Precautions KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.  
DOT Classification Not regulated