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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:** ORANGE KRUSH™ MSDS Prepared By: J. Austin Maglothin, Ph.D.  
**PART NUMBER(S):** K-663 Revision Date: April 3, 2010

### SECTION I - GENERAL

Chemical Name & Synonym: Not Applicable  
Trade Name & Synonyms: ORANGE KRUSH™  
Chemical Family: Petroleum hydrocarbon based mixture  
Formula: Trade secret

### SECTION II - HAZARDOUS INGREDIENTS

|   |         |             |
|---|---------|-------------|
| Petroleum hydrocarbons                    | CAS No. | 8042-47-5   |
| Menthadiene                               | CAS No. | 5989-27-5   |
| Poly(ethylene glycol) 4-nonylphenyl ether | CAS No. | 127087-87-0 |

### SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): >170  
Vapor Pressure (mm Hg @ 100°C): 5  
Vapor Density (Air = 1): 4.7  
Specific Gravity (H<sub>2</sub>O = 1): 0.898  
% Volatile by Volume: Not determined  
Evaporation Rate (Ether = 1): <1  
Solubility in Water: Insoluble; emulsifies  
Appearance and Odor: Pale orange fluid with citrus odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%):  
- LEL: 0.7  
- UEL: 6.1  
Flash Point (Method Used): 49°C (TCC)  
Extinguishing Media: Dry powder, foam, carbon dioxide  
Special Fire Fighting Procedures: Avoid the use of water, as it may spread flame. Use Class B fire procedures.  
Unusual Fire & Explosion Hazards: Keep away from sparks and open flame.

### SECTION V - HEALTH HAZARD DATA

Route of Entry: Ingestion, skin absorption, eye contact, inhalation  
Carcinogenic Assessment: Not listed  
Threshold Limit Value: 25ppm  
Effects of Overexposure: Ingestion: May cause nausea, vomiting, and diarrhea  
Skin absorption: Irritant  
Eye contact: Corrosive to eyes  
Inhalation: May cause dizziness, nausea, loss of consciousness  
Emergency & First Aid Procedures: Ingestion: Do not induce vomiting. Drink large volume of milk or water. Get immediate medical attention.  
Skin contact: Wash with soap and water.  
Eye contact: Flush with cool water for 15 minutes. If irritation persists, get medical attention.  
Inhalation: Remove victim to fresh air. Get immediate medical attention.

### SECTION VI - REACTIVITY DATA

Stability: Stable  
Incompatibility (Materials to Avoid): Strong oxidizers  
Hazardous Decomposition Products: None known  
Hazardous Polymerization: Will not occur

### SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb on inert material and collect in suitable labeled containers for disposal. Spills may be diluted 1:20 with water and washed down sewers.  
Waste Disposal Method: Dispose of in accordance with all local, state and federal regulations. Rinse empty container 3 times before discarding in an authorized local, state or federal landfill.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not normally required. If vapor level is high, use self-contained breathing apparatus.  
Ventilation: Local exhaust is normally adequate  
Protective Gloves: Chemical resistant  
Eye Protection: Splash goggles or face shield  
Other Protective Equipment: Usually not needed

### 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 extreme heat and cold.  
Other Precautions: Keep out of reach of children. Read & follow label directions. Dilute 1:20 or more with water before flushing to fish bearing waterways.  
DOT Classification: Not Regulated