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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:** NUZONE™ MSDS Prepared By: J.Austin Maglothin, Ph.D.  
**PART NUMBER(S):** Z-300: Orange; Z-301: Cherry; Z-302: Green Apple Revision Date: April 15, 1998

### SECTION I - GENERAL

Chemical Name & Synonym: Not Applicable  
Trade Name & Synonyms: NUZONE™  
Chemical Family: Petroleum hydrocarbon solution  
Formula: Trade Secret

### SECTION II - HAZARDOUS INGREDIENTS

Petroleum hydrocarbons CAS No. 64742-47-8

### SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): 223 to 251  
Vapor Pressure (MM Hg @ 20°C): 1  
Vapor Density (Air = 1): 6.5  
Specific Gravity (H<sub>2</sub>O = 1): 0.792 (Green Apple); 0.803 (Orange); 0.805 (Cherry)  
% Volatile by Volume: Not Determined  
Evaporation Rate (H<sub>2</sub>O = 1): Not Determined  
Solubility in Water: Less than 0.1% at 20°C  
Appearance and Odor: Clear fluid with odor as named  
Others: None

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (% at 25°C)  
- LEL: 0.6  
- UEL: 7.0  
Flash Point (Method Used): 56°C: Orange; 62°C: Green Apple; 71°C: Cherry (TCC)  
Extinguishing Media: Foam, dry chemical or water spray  
Special Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel  
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: Not listed  
Threshold Limit Value: 300ppm  
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. Aspiration of liquid during ingestion or vomiting may cause bronchiopneumonia or pulmonary edema.  
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. Flush with large amounts of water.  
Inhalation: Remove to fresh air. Administer artificial respiration if breathing has stopped.  
Ingestion: DO NOT INDUCE VOMITING. Keep at rest. Get prompt 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. Dispose of empty container in an authorized landfill.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: None in normal use  
Ventilation: Normal ventilation is adequate  
Protective Gloves: None required  
Eye Protection: Safety glasses are recommended  
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 extreme heat and cold.  
Other Precautions: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.