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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™
PART NUMBER(S): Z-300: Orange; Z-301: Cherry; Z-302: Green Apple
MSDS Prepared By: J.Austin Maglothin, Ph.D.
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 (H₂O = 1): 0.792 (Green Apple); 0.803 (Orange); 0.805 (Cherry)
% Volatile by Volume: Not Determined
Evaporation Rate (H₂O = 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.
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.

Emergency & First Aid Procedures

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.