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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: BLUE NORTHER™
PART NUMBER(S): K-404

MSDS Prepared By: J.Austin Maglothin, Ph.D.
Revision Date: January 10, 1998

SECTION I - GENERAL

Chemical Name & Synonym: Not Applicable
Trade Name & Synonyms: BLUE NORTHER™; Windshield De-Icer and Cleaner
Chemical Family: Alcoholic solution
Formula: Trade Secret

SECTION II - HAZARDOUS INGREDIENTS

Methyl alcohol CAS No. 67-56-1

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): 68°C
Vapor Pressure (mm Hg @ 20°C): Not Determined
Vapor Density (Air = 1): 1.1
Specific Gravity (H₂O = 1): 0.845
% Volatile by Volume: 87%
Evaporation Rate (H₂O = 1): Est. >1
Solubility in Water: Miscible
Appearance and Odor: Clear green fluid with alcohol odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%):
- LEL: 7%
- UEL: 35%
Flash Point (Method Used): 16.5°C (TCC)
Extinguishing Media: CO₂, dry chemical, water spray or "alcohol" foam
Special Fire Fighting Procedures: Use water spray to keep uninvolved containers cool. Wear self-contained breathing apparatus.
Unusual Fire & Explosion Hazards: Vapors are toxic. Flames may have little luminosity. Vapor is heavier than air, posing potential for flashback.

SECTION V - HEALTH HAZARD DATA

Route of Entry: Inhalation, ingestion, eye contact, skin contact
Carcinogenic Assessment: Not listed
Threshold Limit Value: 200 ppm
Effects of Overexposure: Ingestion may cause blindness and central nervous system (CNS) depression; also, burns or irritation to mucous membranes. May be harmful if absorbed through skin. Inhalation can cause CNS depression and irritation to lungs and airways. Eye irritant.
Emergency & First Aid Procedures: Ingestion: Drink 2 glasses of water. Induce vomiting with finger or back of spoon. Immediately contact physician or hospital emergency room for assistance.
Inhalation: Remove to fresh air. If toxic symptoms develop, get medical attention.
Eye contact: Flush with water for 20 minutes. Get prompt medical attention.
Skin contact: Flush with water if irritation develops.

SECTION VI - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Alcohol-reactive materials
Hazardous Decomposition Products: Formaldehyde
Hazardous Polymerization: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate all ignition sources. Soak up with absorbent material and dispose of as hazardous waste. Consult local authorities.
Waste Disposal Method: Consult local authorities. Rinse container well before discarding in an authorized landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: None needed under normal use.
Ventilation: Normal ventilation. Use explosion-proof mechanical ventilation in case of spills.
Protective Gloves: Solvent-resistant
Eye Protection: Safety glasses or chemical goggles
Other Protective Equipment: Synthetic apron if there is a possibility of splashing

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: KEEP AWAY FROM SOURCES OF IGNITION. Store in original containers. Keep closed when not in use. Protect from extreme heat.
Other Precautions: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.