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| <b>HMIS</b>  |          |
| <b>Codes</b> |          |
| <b>H</b>     | <b>1</b> |
| <b>F</b>     | <b>3</b> |
| <b>R</b>     | <b>0</b> |
| <b>P</b>     | <b>B</b> |

## MATERIAL SAFETY DATA SHEET

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

**PRODUCT:** SPOT FREE™ GLASS CLEANER, CONCENTRATE  
**PART NUMBER(S):** K-424  
MSDS Prepared By: J. Austin Maglothin, Ph.D.  
Revision Date: April 15, 1998

### SECTION I - GENERAL

Chemical Name & Synonym Not Applicable  
Trade Name & Synonyms SPOT FREE™ GLASS CLEANER, CONCENTRATE  
Chemical Family Aqueous solution  
Formula Trade Secret

### SECTION II - HAZARDOUS INGREDIENTS

2-Propanol CAS No. 67-63-0  
2-Butoxyethanol CAS No. 111-76-2

### 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) 0.93  
% Volatile by Volume 48%  
Evaporation Rate (H<sub>2</sub>O = 1) >1  
Solubility in Water Miscible  
Appearance and Odor Clear green fluid with honeysuckle odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%)  
- LEL 2  
- UEL 12  
Flash Point (Method Used) 26.8°C (TCC)  
Extinguishing Media Alcohol type foam, CO<sub>2</sub>, dry chemical, water spray, water fog  
Special Fire Fighting Procedures Water may be ineffective in firefighting due to low flash point. Use water spray/fog for cooling. Avoid frothing/steam explosion.  
Unusual Fire & Explosion Hazards Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Diluting with water may not suffice to raise flash point above ambient temperatures.

### SECTION V - HEALTH HAZARD DATA

Route of Entry Eye contact, inhalation, ingestion  
Carcinogenic Assessment Not listed  
Threshold Limit Value 400ppm TWA (8 hours), 500ppm STEL (15min)  
Effects of Overexposure Eye contact: irritation  
Inhalation: Prolonged overexposure can cause coughing, shortness of breath, dizziness and intoxication.  
Ingestion: Can cause severe gastrointestinal disturbances  
Emergency & First Aid Procedures Eye contact: Flush with water for 20-30 minutes. Get medical attention.  
Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Get medical attention.  
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.

### SECTION VI - REACTIVITY DATA

Stability Stable  
Incompatibility (Materials to Avoid) Aluminum metals, Nitrofoam, strong oxidizing agents, sulfuric acid.  
Hazardous Decomposition Products None identified  
Hazardous Polymerization Will not occur

### SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled Extremely flammable liquid. Release causes immediate fire/explosion hazard. Extinguish all ignition sources. Wear vapor respirator in confined areas. Soak up with inert solids.  
Waste Disposal Method Dispose of as hazardous waste. Rinse empty container well before discarding in an authorized landfill.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection None required in normal use. For spills, use vapor respirator. Do not use in confined spaces.  
Ventilation Normal ventilation is adequate.  
Protective Gloves Vinyl or latex  
Eye Protection Safety glasses  
Other Protective Equipment None required

### SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing Keep away from heat, sparks, open flame and strong oxidizing agents. Store tightly closed in original containers for up to one year.  
Other Precautions KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.