

ROYAL SOLUTIONS, INC.

16057 E. FOOTHILL BLVD.

IRWINDALE, CA 91702

(626) 334-4299 24 HOUR D.O.T. AND EMERGENCY (800) 535-5053

MATERIAL SAFETY DATA SHEET

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Product Name: LOYAL® 64-1 GLASS CLEANER

Product Code: 3070

Chemical or Common Name: GLASS CLEANER

Date Issued: 11/08/05

Prepared By: JEFFREY ADLER

Supercedes: New

1. Hazardous Information

Chemical Name	Cas Numbers	Weight %	Exposure Information
Glycol Ether EB	000111-76-2	12-17	PEL 25 TLV 25 SKIN
Aqua Ammonia	7664-41-7	5-10	PEL 50 TLV 25

2. Physical Data

Solubility in Water: Complete	Specific Gravity (Water=1): .99	Melting or Freezing Point: ND
Boiling Point: ND	Vapor Density (air=1): ND	Viscosity: Thin Liquid
Percent Volatile (By Wt): ND	pH: 12.0 ± .5	Appearance-Odor: Thin blue liquid with an ammonia odor
Vapor Pressure (MM HG): ND	Evaporation Rate (BU AC=1): ND	

3. Fire and Explosion Data

Flash Point: ND Auto ignition Temp: ND Lower Explosion Limit: ND Upper Explosion Limit: ND

Extinguishing Media Foam X CO2 X Dry Chemical X water Fog X Other

Special Fire Fighting Procedures: Normal fire fighting procedures may be used. Cool and use caution when approaching or handling fire exposed containers.

Unusual Fire & Explosion Hazards: Container may burst in heat or fire.

4. Health Data

Recommended Health Guide TWA (Maximum Time Weighted Average Concentration For An 8 Hour Work Period). **ND**

Effects of Overexposure: Eyes: Direct contact with eyes can cause irritation. Product may cause irritation and nausea if taken internally. Prolonged or repeated contact of product with skin may cause irritation. Product spray or mist may cause irritation to nose, throat and lungs, if adequate ventilation is not employed.

Emergency and First Aid Procedures

Inhalation: If difficulty or discomfort in breathing is experienced, remove to fresh air and get medical attention. **Eye & Skin Contact:** Flush eyes with water for 15 minutes. If irritation persists, consult a physician. Wash skin thoroughly. If irritation persists, consult a physician. **Ingestion:** Do not induce vomiting. Drink large quantities of water or milk. Call a physician immediately.

5. Reactivity Data

Stability: STABLE

Conditions To Avoid: NONE NOTED

Hazardous Decomposition Products:When exposed to fire , produces normal products of combustion.

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid: NONE NOTED

Incompatibility (Materials To Avoid): Do not mix with other chemicals

6. Spill or Leak Procedure

Steps to be taken if material is released or spilled: Dike large spills. Absorb with absorbent material. Sweep up and Containerize. Rinse affected area with water.

Waste Disposal Information: For undiluted material disposal is regulated under the Resource Conservation and Recovery act as corrosive waste. Disposal for regulated quantities by neutralization at a permitted facility in accordance with all Federal, State and Local regulations.

7. Special Protection Information

Respiratory Protection (Specify Type): No special requirements under normal use. If mist/vapors are not adequately controlled by local ventilation, use appropriate respiratory protection to prevent overexposure.

Ventilation: Normal room ventilation should be adequate.

Protective Gloves: Rubber or PVC

Eye Protection: Splash proof goggles where eye contact may occur.

Other Protective Information: If available

8. Special Precautions

Precautionary Labeling: Keep out of the reach of children. Avoid eye contact. Wash hands after using material.

Other Handling And Storage Conditions: Store in a cool dry area.

9. Additional Information

Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they are full.

NA- Not Applicable **ND-** Not Determined

10. Health Hazard Rating

0-Insignificant	1-Slight	2-Moderate	3-High	4-Extreme
Health 1	Fire 1	Reactivity 0	Special 0	

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