

MATERIAL SAFETY DATA SHEET

A Product Of: Arrow Paper Corporation
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SECTION I - PRODUCT IDENTIFICATION

Trade Name: PATRIOT PARAMOUNT AMMONIATED GLASS CLEANER
Chemical name / synonyms: Alcohol/water mixture
Formula: Mixture
D.O.T.: Compounds Cleaning Liquids (Contains Isopropyl Alcohol) 3, NA 1993, PG II
HMIS CODE: Health 1, Fire 3, Reactivity 0
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

<u>Substance</u>	<u>% Composition</u>	<u>TLV</u>
Isopropyl Alcohol CAS# 67-63-0	< 50	400 ppm
2-Butoxyethanol CAS# 111-76-2	< 15	25 ppm
Water CAS# 7732-18-5	< 50	-
Ammonia CAS# 7664-41-7	< 5	25 ppm

SECTION III - PHYSICAL DATA

Boiling Pt (°F): approx. 180
Vapor Pressure(mm Hg): 33
Vapor Density(air=1): > 1
Solubility in water: Complete
Appearance and Odor: Blue clear liquid, distinct odor.

Specific Gravity: 0.92
VOC (% wt): 47
Evaporation Rate (water=1): < 1
pH: 7

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): > 53
test method: Tables

Flammable limits in air (vol%)
Upper: 12 Lower: 2 (Isopropyl)

Extinguishing Media: Carbon dioxide, water foam, dry chemical
Special fire fighting procedures: None
Unusual fire and explosion hazard: Alcohol vapors are heavier than air. Cool exposed tanks with water. Water spray may be ineffective in fire fighting.

SECTION V - HEALTH HAZARD DATA - ROUTES OF ENTRY

Threshold Limit Value: See Section II
Primary Route(s) of Entry: Eye contact. Skin Contact. Inhalation of mist if sprayed.
Health Hazard (Acute and Chronic): Although pH alone is not a precise indicator of irritation potential, this product should be handled as possibly irritating to eyes based on pH.
Signs And Symptoms Of Overexposure: EYES- Tearing, stinging, redness. SKIN- Stinging, redness, some swelling possible. INHALATION- Coughing, soreness in respiratory tract, chest tightness, difficulty breathing.

Conditions Generally Recognized As Being Aggravated By Exposure: Persons with pre-existing skin disorders may be more susceptible to irritating effects. Persons with pre-existing lung disorders may be more susceptible to irritating effects.

Emergency And First Aid Procedures: EYES- Immediately flush with plenty of cool water for at least 15 minutes while holding the eyelids open. Do not attempt neutralizing with chemical agents. Contact a physician immediately. SKIN-Immediately remove contaminated clothing and flush area with large quantities of water for at least 15 minutes. Do not attempt neutralizing with chemical agents. Contact a physician if irritation develops. INGESTION- If patient conscious, give

several glasses of water for dilution effect and contact a physician. Do not induce vomiting. Do not give an unconscious person anything by mouth. INHALATION- Remove from contaminated atmosphere. If breathing has stopped, give artificial respiration then oxygen if needed. Contact a physician.

SECTION VI - REACTIVITY DATA

Stability: stable
Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous polymerization products: Will not occur.
Conditions to avoid: None

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled: Eliminate all sources of ignition. Large spills: Dike and contain. Place in non leaking containers for disposal agency. Small spills: soak or mop up. Evaporates leaving little if any residue.
Waste disposal method: Small quantities will evaporate readily. Large amounts should be given to licensed disposal agency.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator if TLV will be exceeded. Use only with adequate ventilation.
Ventilation -local exhaust: recommended
-mechanical exhaust: recommended
Protective gloves: rubber
Eye protection: chemical goggles
Other protective equipment: emergency shower and eye wash.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store in a cool dry place, away from heat, spark, or open flame. Keep container tightly closed when not in use. Empty containers may retain hazardous residue. Do not cut or weld empty containers.

Other precautions: KEEP OUT OF REACH OF CHILDREN.

NA refers to Not Applicable on this form.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication Regulation and Massachusetts Right to Know Law.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described on the label or in the Product Data Sheet is the responsibility of the user.