

# MATERIAL SAFETY DATA SHEET

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

Trade Name: PATRIOT FRONTLINE DETERGENT  
Chemical name / synonyms: Water Base Alkaline Detergent  
Formula: Mixture  
D.O.T. Proper Shipping Name: None regulated Class 55 Cleaning Compound  
HMIS CODE: Health 1, Fire 1, Reactivity 0  
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

## SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
2-Butoxyethanol CAS # 111-76-2	>5	25 ppm (skin)

## SECTION III - PHYSICAL DATA

Boiling Pt (°F): 121	Specific Gravity: 1.02
Vapor Pressure (mm Hg): NA	V.O.C.(% by weight): <15
Vapor Density (air=1): NA	Evaporation Rate (water=1): 1
Solubility in water: complete	pH: 8
Appearance and Odor: No Odor, faint odor	

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): N.E.      Flammable limits in air (vol. %)  
test method: NA      Upper: NA      Lower: NA

Extinguishing Media: As necessary for surrounding fire.

Special fire fighting procedures: NA

Unusual fire and explosion hazard: NA

## 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

Conditions to avoid: Avoid mixing concentrate with strong acids.

Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.

Hazardous polymerization products: Will not occur.

## SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled:

Large spills: Dike and contain. Place in non-leaking containers for disposal agency. Small spills: soak or mop up. Small spills may be flushed to sewer.

Waste disposal method: Small quantities will evaporate readily. Large amounts should be given to licensed disposal agency.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Should not be necessary when diluted before spraying.

Ventilation -local exhaust: recommended  
-mechanical exhaust: not necessary

Protective gloves: rubber

Eye protection: chemical goggles if contact is likely.

Other protective equipment: none

## SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35°F.  
Keep container tightly closed when not in use.

Other precautions: KEEP OUT OF REACH OF CHILDREN.  
NA means NOT APPLICABLE on this form.  
NE means NOT ESTABLISHED on this form.

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 that is not described on the label or in the Product Data Sheet is the responsibility of the user.

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