

MATERIAL SAFETY DATA SHEET

A Product Of: Date: 1-1-2005
Arrow Paper Corporation Ref. No.: 2782
P.O. Box 1001 Telephone: 1-888-622-7769
Wilmington, MA 01882 Contact: James Brangwynne

SECTION I - PRODUCT IDENTIFICATION

Trade Name: PATRIOT COMMEND

Chemical name / synonyms: Alkali Concentrate

Formula: Mixture of Alkali cleaning compounds

D.O.T.: Corrosive Solids, Basic, Inorganic, N.O.S. (Contains Sodium Hydroxide, Sodium Metasilicate), and 8, UN 3262, PG III

HMIS CODE: Health 3, Fire 0, Reactivity 1, Personal D

HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
Sodium Hydroxide CAS#1310-73-2	35-45%	2 mg/m3
Sodium Metasilicate CAS# 6834-92-0	10-20%	N.E.

SECTION III - PHYSICAL DATA

Boiling Pt (°F): NA	Specific Gravity: >1.23
Vapor Pressure (mm Hg): NA	Voc (% wt): NA
Vapor Density (air=1): NA	Evaporation Rate (water=1): NA
Solubility in water: complete	pH: 13.4-14
Appearance and Odor: Tan Powder, no odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): Non-Flammable 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

Acute Effects of Overexposure: EYES - causes severe burns. May cause irreparable damage, and/or loss of vision. SKIN - corrosive action causes burns. Prolonged contact destroys tissues. INHALATION - Excessive exposure to dust may cause damage to the upper respiratory tract and lung tissue depending on extent of exposure. Effects range from mild irritation of mucous membranes, severe pneumonitis and lung tissue destruction. INGESTION - can cause very severe damage to mouth, esophagus, and stomach. May be fatal.

Chronic Effects of Exposure: local effect may consist of multiple areas of superficial destruction of the skin or of primary dermatitis. Similarly, inhalation of the dust may result in varying degrees of irritation.

Emergency and first aid procedures: EYES - immediately flush with plenty of cool water for at least 15 minutes. Hold eyelids open during this flushing with water. Obtain medical attention. SKIN - immediately flush skin with plenty of water while removing contaminated clothing and boots. Call a physician. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. Thoroughly clean contaminated clothing and boots before reuse or discard. INHALATION - remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. INGESTION - If conscious, drink large quantities of water or acidic beverage (tomato or orange juice, carbonated soft drinks.) Do not induce vomiting. Take immediately to a hospital or physician. If vomiting occurs, administer additional water. If unconscious or in convulsions, take immediately to hospital. Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

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: In case of spillage, sweep up excess material and dispose of in accordance with applicable regulations. Dispose of in accordance with local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator for a nuisance dust when using or handling the concentrated powder.

Ventilation -local exhaust: recommended

-mechanical exhaust: recommended

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.