

# MATERIAL SAFETY DATA SHEET #24

Medical Emergency Telephone (Poison Center): (303) 623-5716  
 Chemtrec Emergency Telephone: 1-800-424-9300  
 Non-Emergency Telephone: 1-413-525-5870

## SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

PRODUCT NAME: Universal Plate Cleaner

PRODUCT DESCRIPTION: Aqueous Alkaline Solution for the cleaning of offset printing plates. May be used by hand or with an automatic clean up device.

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS (Typical Values)

HAZARDOUS INGREDIENTS	CAS NO.	WT %	ACGIH(TLV)	OSHA(PEL)†
Potassium Hydroxide	1310-58-3	0-1	*NE	*NE
2-butoxyethanol	111-76-2	10-20	20 ppm	50 ppm

†The PEL limit values listed above are published figures from the 1989 Title 29, CFR 1910.1000, Z list using transitional limits.

\*None Established

## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Danger Causes severe Eye and Skin Burns!** Do not get in eyes, skin, or clothing. Keep away from food and drink. During a fire, irritating vapors and mists can be generated by thermal decomposition which can cause severe irritation to eyes, skin, and mucous membranes. Follow Section 5 for fire fighting procedures and Section 6 for accidental release measures. In case of contact with material, immediately flush eyes with running water for at least 15 minutes. See **Emergency Response Guide #60**.

POTENTIAL HEALTH EFFECTS: Routes of Entry .....Eye, Skin, Inhalation, Ingestion

#### A. ACUTE EXPOSURE EFFECTS (NOTE: Pertains to Finished Product)

Eye Contact: May cause severe irritation and burning.  
 Skin Contact: May cause severe irritation and burning  
 Inhalation: Hazardous in case of inhalation (lung irritant). Inhalation of the spray mist may produce severe irritation of the respiratory tract.  
 Ingestion: May be fatal if swallowed. May cause severe irritation and burning of the mucous membranes or digestive tract.

B. CHRONIC HEALTH EFFECTS (NOTE: Pertains to each ingredient listed in Section 2 per 29 CFR Sect. 1910.1200)

A computerized literature search of national databases did not yield any chronic effects associated with these materials. (These databases are researched every six months for any new toxic information.) However, there is always the possibility of dermatitis and respiratory disease under continuous exposure.

Carcinogenicity Listing      NTP No      IARC No      OSHA No

#### SECTION 4: FIRST AID MEASURES

**Eyes:** Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention.  
**Skin:** Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.  
**Inhalation:** For over-exposure, remove to fresh air. Seek medical attention.  
**Ingestion:** Obtain immediate medical attention. Have conscience person drink several glasses of water or milk.  
**Do not induce vomiting.**

#### SECTION 5: FIRE FIGHTING MEASURES

**Fire and Explosion Data:** Noncombustible  
**Fire and Explosion Hazards:** None  
**Extinguishing Media:** Any applicable to primary cause of fire.  
**Special Fire Fighting Procedures:** Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.  
**Unusual Fire & Explosion Hazards:** None known.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures** NOTE: Review Sections 5 and 8 before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways, or low areas. Soak up with sawdust, sand, oil dry, or other absorbent material. Spill may be neutralized with powdered Citric Acid. Store in closed waste disposal-type containers prior to ultimate disposal.

#### SECTION 7: HANDLING AND STORAGE

Avoid eye and skin contact, and store in well-ventilated area. Keep container tightly closed. Do not store with incompatible materials (see Section 10). Do not store or consume food, drink or tobacco in area where they may become contaminated with this material.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** None needed with working mixtures and normal room ventilation (10 changes of air per hour).  
**Ventilation:** Room ventilation is sufficient. Avoid use of product in unventilated areas. Always control airborne levels below the exposure guidelines when reported in Section 2 (use 50% of the TLV).  
**Skin and Eye Protection:** Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons. Disposable coveralls are optional, and discard after use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	212°F 100°C
MELTING POINT	Not Applicable
VAPOR PRESSURE (mm Hg) at 20°C	Not Available
VAPOR DENSITY (AIR=1)	Not Available
EVAPORATION RATE: (Butyl acetate = 1)	Not Available
VOLATILE FRACTION BY WEIGHT	Not Available
SOLUBILITY IN WATER (By Weight %)	Approx. 100%
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.04
pH	13 - 13.5
APPEARANCE	Clear Liquid
ODOR	Slight Windex

## SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Strong Acids
Hazardous Decomposition Products:	CO <sub>2</sub> , oxides
Hazardous Polymerization:	Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological properties of this substance have not been fully investigated. However, the solution is known to be low in toxicity.

## SECTION 12: ECOLOGICAL INFORMATION

**General:** Not expected to present any significant ecological problems. The products of degradation are less toxic than the product itself.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Recover nonusable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system; incineration is recommended. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pretreatment.

## SECTION 14: TRANSPORTATION INFORMATION

### DOT, IMO, IATA/ICAO, Transport Canada

Hazard Class:	Corrosive Material, Class 8
Proper Shipping Name:	Corrosive Liquid, basic, inorganic, n.o.s (potassium hydroxide)
UN Number:	UN 3266
Label:	Corrosive liquid
Packing Group:	III
Placard:	Corrosive (over 1,000 <sup>#</sup> aggregate weight)

### **NFPA Hazard Rating**

HEALTH .....	3
FLAMMABILITY .....	0
REACTIVITY .....	0
SPECIAL .....	C

## SECTION 15: REGULATORY INFORMATION

### U.S. FEDERAL REGULATION

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200: Section 2, 2-Butoxyethanol

TSCA: All ingredients in this finished product are listed on the EPA TSCA Inventory (see Section 2).

CERCLA HAZARDOUS SUBSTANCE (40 CFR 302): Not listed RQ = None

SARA Title III: Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

SARA Hazard Categories: **Immediate and Delayed** (see Section 3, Acute Health Effects).  
Components present in this product at a level which could require reporting under the statute are: None.

CHEMICAL SUBSTANCE	CAS NO.	CONCENTRATION	A	B	C	D	E	F	G
2-Butoxyethanol	111-76-2	10-20	yes	yes	-	-	-	-	-
Potassium Hydroxide	1310-58-3	0-1						yes	
FEDERAL REGULATIONS A = SARA	STATE REGULATIONS B = California Proposition 65 C = Florida D = Rhode Island		INTERNATIONAL REGULATIONS *E = EINECS F = WHMIS (Canada) G = Canadian Domestic Substance List						

\*EINECS Number:

## SECTION 16: OTHER INFORMATION

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