

# MATERIAL SAFETY DATA SHEET

## STEP ONE - AS

DATE: 12/31/03  
SUPERSEDES: 1/26/01

HAZARD RATINGS (0-4)  
FIRE 0            REACTIVITY 0  
TOXICITY 1      SPECIAL

SUPPLIER:      MIDLAND PRODUCTS  
                  18600 GRAPHICS COURT    TINLEY PARK, IL 60477  
                  (708) 444-8200

TRADE NAME:        STEP ONE - AS  
PRODUCT TYPE:     ALKALINE LIQUID FABRIC CLEANER  
CHEMICAL FORMULA: MIXTURE  
CHEMICAL NAME:    N/A

## COMPONENT LIST - SECTION I

<u>COMPONENT</u>	<u>CAS</u>		<u>TLV</u>	<u>TLV</u>
	<u>REG#</u>	<u>%</u>	<u>OSHA</u>	<u>ACGIH</u>
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	3 - 8	N/A	N/A
MODIFIED ETHOXYLATED ALCOHOL	N/A	1 - 2	N/E	N/E
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	5 - 10	N/A	100 ppm
PROPYLENE GLYCOL BUTYL ETHER	5131-66-8	5 - 10	N/A	100 ppm
PHOSPHATE ESTER SURFACTANT	7664-38-2	3 - 5	N/A	N/A

This product contains no ingredients that are listed in the SARA III, Section 313 Inventory.

## PHYSICAL PROPERTIES - SECTION II

APPEARANCE:        CLEAR LIQUID WITH CITRUS ODOR  
pH:                    9.5  
VISCOSITY:           5.0  
FREEZING POINT:    32° F, WATER; FREEZE/THAW STABLE  
BOILING POINT:     212° F, WATER  
VAPOR PRESSURE:   <18  
VAPOR DENSITY:    <1  
SOLUBILITY IN WATER: COMPLETE  
VOLATILE (% WT):   90 - 95  
SPECIFIC GRAVITY:   1.03  
EVAPORATION RATE: <1

## FIRE AND EXPLOSION HAZARD - SECTION III

FLASH POINT:        NONE  
LOWER EXPLOSION LIMIT:    N/A                    UPPER EXPLOSION LIMIT:    N/A  
AUTO IGNITION TEMP:      N/A  
EXTINGUISHING MEDIUM:    FOAM, CO<sub>2</sub>, DRY CHEMICAL  
SPECIAL FIRE FIGHTING PROCEDURES:  
                  COOL AND USE CAUTION WHEN APPROACHING FIRE-EXPOSED CONTAINERS  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
                  CONTAINERS MAY BURST IN HEAT OF FIRE

## HEALTH HAZARDS - SECTION IV

THRESHOLD LIMIT VALUES: NONE ESTABLISHED  
PRIMARY ROUTES OF EXPOSURE: EYE, SKIN  
CARCINOGENS OR SUSPECTED CARCINOGENIC INGREDIENTS: NONE  
EFFECTS OF OVEREXPOSURE:  
                  IF IN EYES - WILL CAUSE SEVERE PERSISTANT IRRITATION.  
                  IF ON SKIN - WILL CAUSE MODERATE IRRITATION.  
                  IF INHALED - SPRAY MIST OR FOG MAY CAUSE IRRITATION TO NOSE, THROAT AND LUNGS.  
                  IF SWALLOWED - MAY CAUSE CORROSIVE DAMAGE TO MOUTH, THROAT OR STOMACH.  
                  LARGE ORAL DOSES MAY CAUSE DIARRHEA, INTESTINAL BLEEDING.

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**EMERGENCY AND FIRST AID PROCEDURES:**

IF IN EYES: FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE FLUSHING OF ENTIRE EYE SURFACE. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

IF ON SKIN: FLUSH THOROUGHLY WITH WATER. WASH CLOTHING BEFORE REUSE.

IF INHALED: REMOVE SUBJECT TO FRESH AIR. IF DISTRESS PERSISTS, CONTACT A PHYSICIAN.

IF SWALLOWED: WASH MOUTH WITH WATER. GIVE LARGE AMOUNTS OF WATER OR MILK TO DRINK. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**REACTIVITY - SECTION V**

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY YIELD OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID STRONG ACIDS (E.G. MURIATIC ACID)

**SPILLS OR LEAK PROCEDURE - SECTION VI**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

FOR SMALL SPILLS THAT CAN BE HANDLED ROUTINELY, MOP UP AS MUCH AS POSSIBLE, THEN FLUSH RESIDUE INTO SANITARY SEWER SYSTEM.

FOR LARGE SPILLS, COLLECT WITH SUITABLE ABSORBANT, SWEEP UP AND PLACE BULK MATERIAL IN CONTAINER FOR DISPOSAL UNDER CURRENT STATE, LOCAL AND FEDERAL REGULATIONS.

**WASTE DISPOSAL METHODS:**

WASTE FROM NORMAL PRODUCT USE CAN BE FLUSHED TO SANITARY SEWER WHICH LEADS TO SEWAGE TREATMENT FACILITY. UNDILUTED, THIS PRODUCT IS REGULATED UNDER RCRA FOR DISPOSAL AS A CORROSIVE WASTE. REGULATED QUANTITIES SHOULD BE DISPOSED OF BY NEUTRALIZATION AT A PERMITTED FACILITY IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SPECIAL PROTECTION - SECTION VII**

VENTILATION TYPE: GENERAL ROOM VENTILATION IS NORMALLY ADEQUATE. SUBSTANTIAL MISTING CAN BE CONTROLLED WITH LOCAL EXHAUST.

RESPIRATORY PROTECTION: NONE NEEDED UNDER NORMAL USE CONDITIONS. IF MISTS ARE NOT CONTROLLED BY LOCAL EXHAUST, USE NIOSH APPROVED RESPIRATORY EQUIPMENT.

PROTECTIVE GLOVES: IMPERVIOUS

EYE PROTECTION: SAFETY GLASSES IF SPLASHING LIKELY.

OTHER PROTECTIVE EQUIPMENT: USE GOOD PERSONAL HYGIENE PRACTICES. EYE WASH, SAFETY SHOWER

**STORAGE AND HANDLING - SECTION VIII**

KEEP FROM FREEZING. STORE AT 50° - 120° F.

PROTECT FOOD PRODUCTS AND PACKAGING BEFORE USING THIS PRODUCT.

**SHIPPING - SECTION IX**

PROPER SHIPPING NAME: CLEANING, SCOURING OR WASHING COMPOUND, NOI

**MISCELLANEOUS - SECTION X**

ABBREVIATIONS: N/A: NOT APPLICABLE

UNK: UNKNOWN

N/D: NOT DETERMINED

< : LESS THAN

N/E: NOT ESTABLISHED

> : GREATER THAN

PREPARED BY: JOHN ROTH