



# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** METAL PREP  
**PRODUCT NUMBER:** 119  
**PRODUCT FAMILY:** ACID DETERGENT  
**MANUFACTURER:** KO MANUFACTURING, INC  
2720 E. DIVISION STREET  
SPRINGFIELD, MO 65803  
417-866-8000

**DATE PREPARED:** 5/1/2014  
**SUPERCEDED DATE:** 7/1/2013

**EMERGENCY CONTACT:** CHEMTREC 800-424-9300  
**INFORMATION USE:** ACIDIC METAL CLEANER

## 2. HAZARD IDENTIFICATION

**SIGNAL WORD:** WARNING

**HAZARD CLASSIFICATION:** IRRITANT

**POTENTIAL HEALTH EFFECT:** SKIN IRRITANT; MAY IRRITATE OR BURN EYES

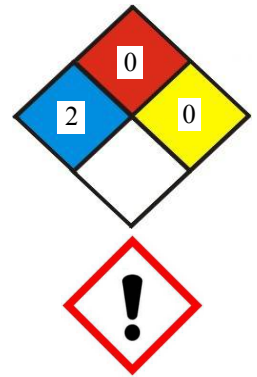
**ROUTE OF EXPOSURE:** EYE CONTACT, SKIN CONTACT, INGESTION

**SKIN CONTACT:** MAY CAUSE SKIN IRRITATION UPON PROLONGED CONTACT.

**EYE CONTACT:** MAY CAUSE SEVERE IRRITATION OR BURNS ON DIRECT CONTACT.

**INGESTION:** MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH

**INHALATION:** MAY CAUSE IRRITATION TO NOSE AND THROAT.



## 3. COMPOSITION IDENTIFICATION

| INGREDIENTS:     | C.A.S. NUMBER: | PERCENT: |
|------------------|----------------|----------|
| PHOSPHORIC ACID  | 7664-38-2      | <5.0%    |
| SODIUM PHOSPHATE | 7758-29-4      | <15.0%   |

## 4. FIRST AID MEASURES

**EYE CONTACT:** RINSE WITH FRESH WATER FOR 15 MINUTES, LIFTING EYELIDS OCCASIONALLY. CALL A PHYSICIAN IF IRRITATION PERSISTS.

**SKIN CONTACT:** RINSE WITH PLENTY OF FRESH WATER AND REMOVE CONTAMINATED CLOTHING IMMEDIATELY. CALL A PHYSICIAN IF IRRITATION PERSISTS.

**INGESTION:** DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER. DO NOT GIVE ANYTHING BY MOUTH IF UNCONSCIOUS.

**INHALATION:** IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CALL A PHYSICIAN IMMEDIATELY.

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## 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:** NON FLAMMABLE.

**FLASH POINT:** DOES NOT FLASH.

**SUITABLE EXTINGUISHING MEDIA:** DRY CHEMICAL, FOAM OR CARBON DIOXIDE, WATER SPRAY.

**UNSUITABLE EXTINGUISHING MEDIA:** NOT ESTABLISHED.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** NONE KNOWN.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:** WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** AVOID CONTACT WITH EYES AND SKIN. SPILL AREA MAY BE SLIPPERY. WEAR PROPER PROTECTIVE EQUIPMENT WHEN DEALING WITH RELEASE.

**ENVIRONMENTAL PRECAUTIONS:** CONTAIN SPILL TO AVOID RELEASE TO THE ENVIRONMENT. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

**METHODS FOR CONTAINMENT AND CLEAN-UP:** COLLECT FOR DISPOSAL USING AN INERT ABSORBENT MATERIAL AND TRANSFER TO A CONTAINER FOR REUSE OR DISPOSAL.

## 7. HANDLING AND STORAGE

**HANDLING:** ALWAYS WEAR PROPER PROTECTIVE EQUIPMENT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING.

**STORAGE:** STORE IN A COOL, DRY PLACE. KEEP OUT OF REACH OF CHILDREN. KEEP LID TIGHTLY CLOSED WHEN NOT IN USE.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THRESHOLD LIMIT VALUE (TLV):** PHOSPHORIC ACID, 1 MG/M<sup>3</sup>

**ENGINEERING CONTROLS:** NONE REQUIRED UNDER NORMAL USE.

**EYE / FACE PROTECTION:** CHEMICAL SAFETY GLASSES.

**SKIN PROTECTION:** CHEMICAL RESISTANT GLOVES.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** LIQUID.

**APPEARANCE:** CLEAR COLORLESS LIQUID.

**ODOR:** NO SCENT.

**BOILING POINT:** NOT ESTABLISHED.

**FREEZING POINT:** NOT ESTABLISHED.

**SPECIFIC GRAVITY:** 1.14

**pH (1%):** 3.5-4.0

**EVAPORATION RATE:** LESS THAN 1.

**FLASH POINT:** DOES NOT FLASH.

**LOWER FLAMMABILITY/EXPLOSIVE LIMIT:** NOT ESTABLISHED.

**UPPER FLAMMABLE/EXPLOSIVE LIMIT:** NOT ESTABLISHED.

**AUTO-IGNITION TEMPERATURE:** NOT ESTABLISHED.

**VISCOSITY:** NOT ESTABLISHED.

**REALTIVE DENSITY:** 9.50 LBS./GL.

**SOLUBILITY:** SOLUBLE.

**VAPOR PRESSURE:** NOT ESTABLISHED.

**VAPOR DENSITY:** NOT ESTABLISHED.

**DECOMPOSITION TEMPERATURE:** NOT ESTABLISHED.

**PARTICAL COEFFICIENT:** NOT ESTABLISHED.  
N-OCTANOL/WATER

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** STABLE.

**CONDITIONS TO AVOID:** NONE KNOWN.

**INCOMPATIBLE MATERIALS:** DO NOT MIX WITH OTHER CHEMICALS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE AND DIOXIDE FROM THERMAL DECOMPOSITION.

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## 11. TOXICOLOGICAL INFORMATION

**EYE IRRITATION/CORROSION:** MAY IRRITATE OR BURN EYES

**EFFECTS OF SHORT-TERM EXPOSURE:** DIRECT EYE CONTACT MAY CAUSE SEVERE IRRITATION.

**INGESTION:** SEVERE IRRITATION TO MOUTH, THROAT, STOMACH.

## 12. ECOLOGICAL IDENTIFICATION

**ECOTOXICITY:** NOT ESTABLISHED.

**PERSISTENCE AND DEGRADABILITY:** BIODEGRADABLE.

**BIOACCUMULATION/ACCUMULATION** NOT ESTABLISHED.

## 13. DISPOSAL CONDITIONS

MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

## 14. TRANSPORTATION INFORMATION

### GROUND SHIPPING INFORMATION:

CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID.

### WATER SHIPPING INFORMATION:

CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID.

### AIR SHIPPING INFORMATION:

CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID.

## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS:

**TSCA (TOXIC SUBSTANCE CONTROL ACT)** ALL COMPONENTS LISTED ON TSCA INVENTORY.

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

**313 REPORTABLE INGREDIENTS**

**CAS NUMBER:**

**PERCENT:**

NONE.

**STATE REGULATIONS:** CALIFORNIA PROPOSITION 65 -THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS CURRENTLY LISTED.

**INTERNATIONAL REGULATIONS:** CLASS D2 IRRITANT UNDER CANADIAN WHMIS.

**SECTION 15 NOTES:** NONE.

## 16. OTHER INFORMATION

**PHONE NUMBER:** 417-866-8000

**DATE OF PREPARATION:** 5/1/2014

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