

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRE-CLEAN PLUS **PRODUCT NUMBER:** 229 **DATE PREPARED:** 1/2/2016 **SUPERCEDED DATE:** 1/2/2015

PRODUCT FAMILY: ALKALINE DETERGENT **MANUFACTURER:** KO MANUFACTURING, INC

KO MANUFACTURING, INC
2720 E. DIVISION STREET
SPRINGFIELD, MO 65803

EMERGENCY CONTACT:
CHEMTREC 800-424-9300

417-866-8000

INFORMATION USE: ALKALINE METAL CLEANER

2. HAZARD IDENTIFICATION

DOT HAZARD CLASSIFICATION: NOT REGULATED BY D.O.T.

SIGNAL WORD: DANGER!

ROUTE OF EXPOSURE: EYE CONTACT, SKIN CONTACT, INGESTION GHS HEALTH CLASSIFICATION; SERIOUS EYE DAMAGE/ EYE IRRITATION 1

SKIN IRRITANT 2



GHS LABEL H315 - Causes skin irritation.

ELEMENTS: H318 - Causes serious eye damage.

P264 - Wash exposed skin thoroughly after handling.

P280 - Wear protective gloves/eye protection/face protection.

P313 - Get medical advice/attention.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call POISON CENTER or doctor/physician.
P332+ P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.

PICTOGRAMS



3.COMPOSITION IDENTIFICATION

C.A.S. NUMBER: PERCENT: INGREDIENTS: 6834-92-0 <40.0% SODIUM METASILICATE <45.0% SODIUM CARBONATE 497-19-8 SODIUM NITRITE 7632-00-0 <3.0% <25.0% SODIUM PHOSPHATE 7758-29-4 **D-LIMONENE** 5989-27-5 <2.0% <10.0% ETHOXYLATEDPROPOXYLATED ALCOHOLS 68987-81-5

4. FIRST AID MEASURES

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

IRRITATION PERSISTS.

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4. FIRST AID MEASURES - CONTINUED

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

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

IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY, GIVE OXYGEN OR ARTIFICIAL **INHALATION:**

RESPIRATION AS NEEDED. CALL A PHYSICIAN IMMEDIATELY.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: NON FLAMMABLE.

DOES NOT FLASH. FLASH POINT:

SUITABLE EXTINGUISHING MEDIA: FOAM OR CARBON DIOXIDE, WATER SPRAY. UNSUITABLE EXTINGUISHING MEDIA: AMMONIUM PHOSPHATE DRY CHEMICAL

NONE KNOWN. SPECIFIC HAZARDS ARISING

FROM THE CHEMICAL:

PROTECTIVE EQUIPMENT AND WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND MSHA/NIOSH

PRECAUTIONS FOR FIREFIGHTERS: APPPROVED) AND FULL PROTECTIVE GEAR.

6. ACCIDENTAL RELEASE MEASURES

AVOID CONTACT WITH EYES AND SKIN. WEAR PROPER PROTECTIVE EQUIPMENT WHEN PERSONAL PRECAUTIONS:

DEALING WITH RELEASE.

CONTAIN SPILL TO AVOID RELEASE TO THE ENVIRONMENT. KEEP CONTAINER **ENVIRONMENTAL PRECAUTIONS:**

TIGHTLY CLOSED WHEN NOT IN USE.

METHODS FOR CONTAINMENT CAREFULLY SWEEP UP MATERIAL AND TRANSFER TO A CONTAINER FOR REUSE OR

DISPOSAL. THOROUGHLY RINSE AREA WITH WATER. AND CLEAN-UP:

7. HANDLING AND STORAGE

HANDLING: HANDLE WITH CARE AND AVOID CONTACT WITH EYES AND SKIN. ALWAYS WEAR PROPER CHEMICAL

RESISTANT PROTECTIVE EQUIPMENT 29CFR1910.132-138. WASH THOROUGHLY AFTER HANDLING.

STORE IN A COOL, DRY PLACE AWAY FROM FLAMMABLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. **STORAGE:**

KEEP LID TIGHTLY CLOSED WHEN NOT IN USE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: NONE REQUIRED UNDER NORMAL USE.

EYE / FACE PROTECTION: CHEMICAL SAFETY GLASSES. SKIN PROTECTION: CHEMICAL RESISTANT GLOVES.

THRESHOLD LIMIT VALUE (TLV): SODIUM NITRITE, 180 MG/KG

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: SOLID. VISCOSITY: NOT ESTABLISHED.

APPEARANCE: ORANGE POWDER. REALITIVE DENSITY: NOT ESTABLISHED.

ODOR: LIGHT CITRUS SCENT. **SOLUBILITY:** SOLUBLE.

BOILING POINT: NOT ESTABLISHED. VAPOR PRESSURE: NOT ESTABLISHED. FREEZING POINT: NOT ESTABLISHED. VAPOR DENSITY: NOT ESTABLISHED. SPECIFIC GRAVITY: NOT ESTABLISHED. DECOMPOSITION NOT ESTABLISHED.

TEMPERATURE: pH (1%): 11.5-11.9

PARTICAL COEFFICIENT: NOT ESTABLISHED. **EVAPORATION RATE:** NOT ESTABLISHED.

N-OCTANOL/WATER

FLASH POINT: DOES NOT FLASH.

LOWER FLAMMABILITY/EXPLOSIVE LIMIT: NOT ESTABLISHED.

UPPER FLAMMABLE/EXPLOSIVE LIMIT: NOT ESTABLISHED.

AUTO-IGNITION TEMPERATURE: NOT ESTABLISHED.

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE MATERIALS: ACIDS, AMMONIUM SALTS, AMINES, CYANIDES, AND REDUCING AGENTS.

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

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION/CORROSION: SERIOUS EYE DAMAGE/ EYE IRRITATION

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

INGESTION: SEVERE IRRITATION OR BURNS TO MOUTH, THROAT, STOMACH.

LD-50: NOT ESTABLISHED.

CARCINOGENICITY: NOT CONSIDERED A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA

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., DRY.

WATER SHIPPING INFORMATION:

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

AIR SHIPPING INFORMATION:

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

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:

SODIUM NITRITE 7632-00-0 2.0%

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

LISTED.

INTERNATIONAL REGULATIONS: CLASS E CORROSIVE UNDER CANADIAN WHMIS

SECTION 15 NOTES: NONE.

16. OTHER INFORMATION

PHONE NUMBER: 417-866-8000

DATE OF PREPARATION: 1/2/2016

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