



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

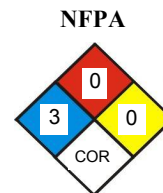
PRODUCT NAME: CHALLENGER
PRODUCT NUMBER: 995
PRODUCT FAMILY: ALKALINE DETERGENT
MANUFACTURER: KO MANUFACTURING, INC
 2720 E. DIVISION STREET
 SPRINGFIELD, MO 65803
 417-866-8000
INFORMATION USE: HEAVY DUTY CLEANER

DATE PREPARED: 1/2/2016
SUPERCEDED DATE: 8/2/2015

EMERGENCY CONTACT:
 CHEMTREC 800-424-9300

2. HAZARD IDENTIFICATION

DOT HAZARD CLASSIFICATION: CORROSIVE SOLID
SIGNAL WORD: DANGER!
ROUTE OF EXPOSURE: EYE CONTACT, SKIN CONTACT, INGESTION AND INHALATION
GHS HEALTH CLASSIFICATION: SKIN CORROSIVE 1C
 EYE DAMAGE/IRRITATION 1



GHS LABEL ELEMENTS: H314 - Causes severe skin burns and eye damage.
 P260 - Do not breathe dust/fume/gas/vapours/spray.
 P264 - Wash exposed skin thoroughly after handling.
 P280 - Wear protective gloves/clothing/eye protection/face protection.
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P351 - Rinse cautiously with water for several minutes.
 P363 - Wash contaminated clothing before reuse.
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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.
 P405 - Store locked up.
 P501 - Dispose of content/container in accordance with local/national regulations.

PICTOGRAMS



3.COMPOSITION IDENTIFICATION

INGREDIENTS:	C.A.S. NUMBER:	PERCENT:
SODIUM HYDROXIDE	1310-73-2	<20.0%
SODIUM METASILICATE	6834-92-0	<20.0%
SODIUM PHOSPHATE	7758-29-4	<20.0%
SODIUM CARBONATE	497-19-8	<75.0%
D-LIMONENE	5989-27-5	<2.0%
ALCOHOL ETHOXYLATES	68439-46-3	<10.0%

4. FIRST AID MEASURES

EYE CONTACT: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO SO. CONTINUE RINSING. CALL A PHYSICIAN IMMEDIATELY.

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4. FIRST AID MEASURES - CONTINUED

SKIN CONTACT: WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. GET MEDICAL ADVICE/ATTENTION.

INGESTION: RINSE MOUTH. DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER TO DRINK. CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY.

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. WEAR PROPER PROTECTIVE EQUIPMENT WHEN DEALING WITH RELEASE.

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

METHODS FOR CONTAINMENT AND CLEAN-UP: CAREFULLY SWEEP UP MATERIAL AND TRANSFER TO A CONTAINER FOR REUSE OR DISPOSAL. THOROUGHLY RINSE AREA WITH WATER.

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.

STORAGE: AVOID RELEASE TO THE ENVIRONMENT. STORE IN LOCKED STORAGE USING CORROSIVE RESISTANT CONTAINERS. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: IF DUST OR MIST LEVELS ARE HIGH SPECIAL VENTILATION MAY BE REQUIRED.

EYE / FACE PROTECTION: CHEMICAL SAFETY GOGGLES AND FULL FACE SHIELD.

SKIN PROTECTION: CHEMICAL RESISTANT GLOVES AND IMPERVIOUS APRON AND BOOTS.

THRESHOLD LIMIT VALUE (TLV): SODIUM HYDROXIDE, 2 MG/M³

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: SOLID.

APPEARANCE: ORANGE POWDER.

ODOR: LIGHT CITRUS SCENT.

BOILING POINT: NOT ESTABLISHED.

FREEZING POINT: NOT ESTABLISHED.

SPECIFIC GRAVITY: NOT ESTABLISHED.

pH (1%): 11.7-12.2

EVAPORATION RATE: NOT ESTABLISHED.

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.

REALITIVE DENSITY: NOT ESTABLISHED.

SOLUBILITY: SOLUBLE.

VAPOR PRESSURE: NOT ESTABLISHED.

VAPOR DENSITY: NOT ESTABLISHED.

DECOMPOSITION TEMPERATURE: NOT ESTABLISHED.

PARTICAL COEFFICIENT: NOT ESTABLISHED.
N-OCTANOL/WATER

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE.

CONDITIONS TO AVOID: NO UNUSUAL CONDITIONS.

INCOMPATIBLE MATERIALS: SOFT METALS AND ACIDIC COMPOUNDS.

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

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION/CORROSION: CAN CAUSE SEVERE BURNS TO EYES AND SKIN

EFFECTS OF SHORT-TERM EXPOSURE: IRRITATION OR BURNS TO EYES, SKIN AND MOUTH.

INGESTION: CAN CAUSE SEVERE BURNS TO MOUTH, THROAT AND 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

THIS MATERIAL WHEN DISCARDED IS A HAZARDOUS WASTE DEFINED BY 40CFR261. MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

14. TRANSPORTATION INFORMATION

GROUND SHIPPING INFORMATION:

UN1759, CORROSIVE SOLID, N.O.S., (SODIUM HYDROXIDE), 8, PGIII.

WATER SHIPPING INFORMATION:

UN1759, CORROSIVE SOLID, N.O.S., (SODIUM HYDROXIDE), 8, PGIII.

AIR SHIPPING INFORMATION:

UN1759, CORROSIVE SOLID, N.O.S., (SODIUM HYDROXIDE), 8, PGIII.

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 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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