

----- MATERIAL SAFETY DATA SHEET -----

K-O-K Products

CITRIC ACID, (ANHYDROUS GRANULES)

STANLEY STEEMER(R) CITRIC ACID, ANHYDROUS
 KOK PRODUCT #: 3532
 24-HOUR EMERGENCY PHONE #: 1-800-255-3924
 PREPARED: 07/10/98
 REVISION #: 001
 SUPERSEDES: 05/05/97
 HMIS RATING:
 HEALTH: 1
 FLAMMABILITY: 0
 REACTIVITY: 0
 PERSONAL PROTECTION: A

 SECTION 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Stanley Steemer(R) Citric Acid, Anhydrous
 PRODUCT USAGE: Water Conditioning Agent and Detergent
 Builder
 CHEMICAL NAME: (2-hydroxy-1,2,3-propanetricarboxylic acid)
 CAS NUMBER: 77-92-9
 MANUFACTURER: K-O-K PRODUCTS, INC.
 700 S. 3B'S & K ROAD
 GALENA, OHIO 43021
 PHONE: (740) 548-0526
 DISTRIBUTOR: Stanley Steemer International, Inc.
 5500 Stanley Steemer Parkway
 Dublin, Ohio 43017
 Phone: (614) 764-2007

 SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Wt%
Citric acid	77-92-9	100

 SECTION 3 -- HEALTH HAZARDS AND FIRST AID

EYES: May cause irritation. If symptoms develop, flush eyes gently with water. Seek medical attention if symptoms persist.
 SKIN: May cause irritation. If on skin, wash area with soap and water. If symptoms develop, seek medical attention.
 BREATHING: Exposure to dust may cause irritation of nasal and respiratory passages. If symptoms develop, move individual into fresh air. If necessary, seek medical attention.
 SWALLOWING: Exposure to small amounts during normal handling is not likely to cause harm; large amounts may be harmful. If swallowed, seek medical attention.
 OTHER HEALTH EFFECTS: None known.
 PRIMARY ROUTES OF ENTRY: Inhalation, eye and skin contact.

 SECTION 4 -- FIRE FIGHTING MEASURES

FLASH POINT: Organic material; will burn and decompose at high temperatures
 EXPLOSIVE LIMIT:
 LEL: No data
 UEL: No data
 HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide
 FIRE AND EXPLOSION HAZARDS: Water or foam may cause frothing which may be quite violent. Solid streams of water or foam should NOT be directed into hot, burning liquid.
 EXTINGUISHING MEDIA: CO2, dry chemical, water fog
 FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus.

 SECTION 5 -- ACCIDENTAL RELEASE MEASURES

Sweep or scoop up. Return material to stock, or if contaminated, transfer to containers for disposal in an approved landfill.

 SECTION 6 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	PEL	TLV
No PEL or TLV established.		

EYE PROTECTION: Chemical splash goggles.
 SKIN PROTECTION: Chemical resistant gloves if contact frequent and prolonged.
 RESPIRATORY PROTECTION: None expected to be needed.
 VENTILATION: General exhaust ventilation.

 SECTION 7 -- PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: 1.542
 VAPOR PRESSURE: Not applicable
 VAPOR DENSITY: Not applicable
 BOILING POINT: Decomposes before boiling; melts at 307 deg F.
 EVAPORATION RATE: Not applicable
 pH: <7
 WATER SOLUBILITY: Complete
 FREEZING POINT: Not applicable
 ODOR AND APPEARANCE: Colorless crystals or powder; odorless

 SECTION 8 -- STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur
 CHEMICAL STABILITY: Stable
 INCOMPATIBILITY: Strong bases, reactive metals such as aluminum and magnesium

 SECTION 9 -- STORAGE AND HANDLING

STORAGE TEMPERATURE: Store in a dry place. Store out of reach of children.
 GENERAL GUIDELINES: Contains of this material may be hazardous when emptied.

 SECTION 10 -- DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations.

 SECTION 11 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65): None.
 CALIFORNIA PROPOSITION 65: No substances known.
 NEW JERSEY RTK LABEL INFORMATION:
 Citric acid (CAS# 77-92-9)
 PENNSYLVANIA RTK LABEL INFORMATION:
 Citric acid (CAS# 77-92-9)
 DEPARTMENT OF TRANSPORTATION:
 PROPER SHIPPING NAME: Non-regulated
 HAZARD CLASSIFICATION: Non-regulated
 FREIGHT DESCRIPTION: Compound Cleaning Solid

 SECTION 12 -- ADDITIONAL INFORMATION

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING FROM THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF THEIR NEED THAT THE INFORMATION IS CURRENT, APPLICABLE AND SUITABLE TO THEIR CIRCUMSTANCES.

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