

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

K-O-K Products

CITRIC ACID, DILUTED WITH WATER,  
AS USED IN CUSTOMER'S HOME

STANLEY STEEMER(R) CITRIC ACID, diluted with water, as used  
in customer's home  
24-HOUR EMERGENCY PHONE#: 1-800-255-3924  
PREPARED: 01/25/99  
REVISION #: New Issue  
SUPERSEDES: N/A  
HMIS RATING:  
HEALTH: 3  
FLAMMABILITY: 1  
REACTIVITY: 0  
PERSONAL PROTECTION: B

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SECTION 1 -- PRODUCT AND COMPANY IDENTIFICATION  
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PRODUCT NAME: Stanley Steemer(R) Citric Acid, diluted with  
water, as used in customer's home  
PRODUCT USAGE: Water Conditioning Agent and Detergent  
Builder  
CHEMICAL NAME: (2-hydroxy-1,2,3-propanetricarboxylic acid)  
CAS NUMBER: 77-92-9 (anhydrous)  
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

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SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS  
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Chemical name	CAS #	Wt%
Citric acid	77-92-9	<15
Water	7732-18-5	>85

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SECTION 3 -- HEALTH HAZARDS AND FIRST AID  
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Although pH alone is not a precise indicator of irritation  
or corrosive potential, this product should be handled as  
severely irritating and possibly corrosive to tissues, by  
all routes of exposure. Use caution when mixing and  
handling.  
EYES: Diluted product can cause severe irritation, and may  
be corrosive causing eye damage. If splashed in eyes,  
immediately flush eyes thoroughly with water for at least  
15 minutes. Seek medical attention immediately.  
SKIN: Diluted product can cause severe irritation.  
Prolonged and/or repeated contact may cause burns. If on  
skin, wash area with soap and water. If symptoms such as  
stinging, irritation, or a burning sensation develop,  
seek medical attention.  
BREATHING: Due to the manner of application, it is unlikely  
that overexposure to spray or mist could occur. If  
symptoms such as coughing, stinging, and irritation  
develop, move individual into fresh air. If necessary,  
seek medical attention.  
SWALLOWING: Can cause severe irritation and/or burns to  
mucous membranes and digestive tract. If swallowed,  
DO NOT induce vomiting. Dilute by drinking large amounts  
of water, rinsing mouth as much as possible. Seek  
immediate medical attention. (Due to the manner of  
application, it is unlikely that large quantities could  
be swallowed.)  
OTHER HEALTH EFFECTS: None known.  
PRIMARY ROUTES OF ENTRY: Skin contact.

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SECTION 4 -- FIRE FIGHTING MEASURES  
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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  
material.  
EXTINGUISHING MEDIA: CO2, dry chemical, water fog  
FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing  
apparatus.

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SECTION 5 -- ACCIDENTAL RELEASE MEASURES  
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Persons not wearing protective equipment should be excluded  
from area of spill. Dike area to prevent spreading, and  
carefully add sodium bicarbonate or lime to neutralize  
acid. Transfer neutralized material to containers for  
disposal in an approved landfill. Flush diked area with  
water, then absorb remaining liquid with inert material,  
and place in containers for disposal in an approved  
landfill.

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SECTION 6 -- EXPOSURE CONTROLS/PERSONAL PROTECTION  
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No PEL or TLV established.  
EYE PROTECTION: Chemical splash goggles.  
SKIN PROTECTION: Chemical resistant gloves.  
RESPIRATORY PROTECTION: None expected to be needed.  
VENTILATION: Normal room ventilation should be adequate.

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SECTION 7 -- PHYSICAL AND CHEMICAL PROPERTIES  
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SPECIFIC GRAVITY: >1  
VAPOR PRESSURE: N/D  
VAPOR DENSITY: N/D  
BOILING POINT: Approximately 212 deg F (based on water)  
EVAPORATION RATE: N/D  
pH: <2.2  
WATER SOLUBILITY: Complete  
FREEZING POINT: Approximately 32 deg F (based on water)  
ODOR AND APPEARANCE: Clear, colorless liquid; odorless

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SECTION 8 -- STABILITY AND REACTIVITY  
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HAZARDOUS POLYMERIZATION: Will not occur  
CHEMICAL STABILITY: Stable  
INCOMPATIBILITY: Strong bases, reactive metals such as  
aluminum and magnesium

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SECTION 9 -- STORAGE AND HANDLING  
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STORAGE TEMPERATURE: Do not store in metal containers. As  
with all cleaning compounds, keep out of reach of  
children.  
GENERAL GUIDELINES: Keep from freezing. Do not eat, drink,  
or smoke when handling this material.

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SECTION 10 -- DISPOSAL CONSIDERATIONS  
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Dispose of in accordance with all applicable local, state  
and federal regulations. Containers of this material may  
be hazardous when emptied.

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SECTION 11 -- REGULATORY INFORMATION  
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SARA 313 (40 CFR 372.65): None.  
CALIFORNIA PROPOSITION 65: No substances known.  
NEW JERSEY RTK LABEL INFORMATION:  
Citric acid (CAS# 77-92-2)  
Water (CAS# 7732-18-5)  
PENNSYLVANIA RTK LABEL INFORMATION:  
Citric acid (CAS# 77-92-2)  
Water (CAS# 7732-18-5)  
DEPARTMENT OF TRANSPORTATION:  
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S. (contains  
citric acid)  
HAZARD CLASSIFICATION: Class 8 (corrosive material),  
UN 1760, PG III  
FREIGHT DESCRIPTION: Compound Cleaning Liquid

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SECTION 12 -- ADDITIONAL INFORMATION  
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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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their particular purpose(s). A request has been made to the  
manufacturer to approve the contents of this material  
safety data sheet. Upon receipt of any changes a new MSDS  
will be made available.

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