

# MATERIAL SAFETY DATA SHEET

## SECTION I - COMPANY AND PRODUCT INFORMATION

Product SKU Number:..... 319  
Manufacturer's Name:..... KIK Pool Additives, Inc.  
Emergency Telephone No.:..... (909) 390-9912  
..... (800)424-9300 (CHEMTREC)  
Street Address:..... 5160 E. Airport Drive  
City/State/Zip code:..... Ontario, CA 91761  
Chemical Name and Synonyms:... Citric Acid & Muriatic Acid Solution  
Trade Name and Synonyms:..... **Kem Tek Pool & Spa Care Tile & Spa Cleaner**  
Chemical Family:..... Acids  
Formula:..... C<sub>7</sub>H<sub>8</sub>O<sub>7</sub> & HCL  
CAS No.:..... Citric Acid: 000-077-929  
..... Muriatic Acid: 07647-01-0  
NFPA Rating: Health:1 Flammability:0 Reactivity:0 Special:  
DOT Proper Shipping Name:..... Not Classified as Hazardous  
DOT ID Number:..... Not Classified as Hazardous  
DOT Hazard Class:..... Not Classified as Hazardous  
Package Group:..... Not Classified as Hazardous

## SECTION II - HAZARDOUS/ACTIVE INGREDIENTS

Citric Acid ..... 17%  
Muriatic Acid ..... 2%

## SECTION III - PHYSICAL DATA

APPEARANCE:..... Thick liquid,  
orange-pink color, slightly opaque  
ODOR ..... None  
pH (in 1% solution)..... 3  
PERCENT VOLATILE .... Non-Volatile

DENSITY @ 25C:..... 1.010 g/ml  
SOLUBILITY IN WATER..... 100%  
VAPOR DENSITY (Air = 1)..... 11.0  
MOLECULAR WEIGHT:..... Proprietary

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... N/A  
FLAMMABLE LIMITS..... N/A  
EXTINGUISHING MEDIA..... Water or dry chemicals

### SPECIAL FIRE FIGHTING PROCEDURES:

If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid, wear acid protective equipment. Self-contained breathing apparatus should be worn.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:..... N/A

### EFFECTS OF OVEREXPOSURE:

**EYE:** Mild to severe irritation. May cause burns if not flushed with water.  
**SKIN:** Mild to severe irritation. May cause burns if not flushed with water.  
**INGESTION:** May irritate or burn mouth, esophagus, or stomach. No exposure limits established. **INHALATION:** No exposure limits established.

### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Immediately flush with water for at least 15 minutes with eyelids apart to thoroughly flush. Get medical attention if irritation persists.  
**SKIN:** Immediately flush affected area with water for at least 15 minutes. Get medical attention if irritation persists.

**INHALATION:** Move to fresh air location. If irritation or discomfort persist, seek medical attention. **INGESTION:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Do not induce vomiting. Contact physician immediately.

## **SECTION VI - REACTIVITY DATA**

**STABILITY:** This Product is stable

**CONDITIONS TO AVOID:** Contact with alkaline materials.

**INCOMPATIBILITY:** (Materials to avoid)

Avoid contact with strong alkaline materials, strong oxidizers, ammonia, bleach, and other household cleaners.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

**FIRE AND EXPLOSION:** Non-hazardous; emits acid fumes when exposed to fire.

**HAZARDOUS POLYMERIZATION:**..... WILL NOT OCCUR

## **SECTION VII - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE OF MATERIAL RELEASED OR SPILLED:**

**Small Spill:** Absorb with spill kit or baking soda. If not available flush copious amounts of water into sewage.

**Large Spill:** Absorb with spill kit or baking soda, contact supplier.

**WASTE DISPOSAL METHOD:**

Comply with all local, state, and federal regulations.

## **SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** (Specify type)

NIOSH or MSA certified dust mask should be worn. To control exposure below nuisance dust limits of 10 mg/m<sup>3</sup>.

**VENTILATION:**

**LOCAL EXHAUST:**

**PROTECTIVE GLOVES:** Wear acid resistant gloves (Rubber or Neoprene).

**EYE PROTECTION:** Safety goggles or full face shield.

**OTHER PROTECTIVE EQUIPMENT:**

Clothes should completely cover skin to avoid skin contact. Coats, coveralls, or aprons are recommended.

## **SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid direct contact with contents. Do not puncture bottle. Keep upright. **STORAGE:** alkalis. Keep containers tightly closed.

**OTHER PRECAUTIONS:** Avoid contact with skin, eyes, or clothing. Wear all recommended protective equipment when handling.

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Reviewed/Revised: 09/03/2012