

# MATERIAL SAFETY DATA SHEET

KX-49  
Experimental Mineral Film Remover

**1. IDENTIFICATION**

*Company:* MAGNAFLUX  
*Address:* 3624 West Lake Avenue, Glenview, Illinois 60025  
*Telephone No.:* (847) 657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).  
*Product Use:* Aqueous acid cleaner  
*Packages:* 5 gallon pail, 55 gallon drum  
*NFPA Rating:* Health 3, Flammability 0, Reactivity 0  
*PIN:* None  
*Revision Date:* April 10, 2008

**2. INGREDIENTS**

	<u>CAS Number</u>	<u>% by Weight</u>	<u>OSHA PEL*</u>	<u>ACGIH TLV**</u>
<b>Hazardous Ingredients</b>				
Citric Acid	77-92-9	1-20	<u>Not available</u>	<u>Not available</u>

This product contains no hazardous chemical substances at 1.0% or more listed in 29 CFR 1910 Subpart Z, or ACGIH Threshold limit Values. Also this product contains no carcinogens at 0.1% or more listed in NTP Annual Report on Carcinogens, IARC Monographs, or 29 CFR 1910 Subpart Z.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**  
**Aqueous acid solution that can irritate the skin and respiratory track, and severely irritate the eyes.**

Signs & Symptoms of Acute Exposure

*Inhalation:* Irritation may occur if material becomes airborne.  
*Eyes:* severe irritation upon direct contact.  
*Skin:* Irritation upon direct contact.  
*Ingestion:* None known.

**4. FIRST AID**

*Skin Contact:* Wash off with soap and water. Use soothing lotion.  
*Eyes:* Rinse carefully under upper and lower eyelids using plenty of water.  
*Inhalation:* Remove to fresh air.  
*Ingestion:* If conscious, dilute by giving 2 glasses of water. Call physician or local poison control center immediately.  
**NOTE:** In all severe cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.

**5. FIRE HAZARD**

*Conditions of flammability:* None  
*Flash point:* None to boiling  
*Flammable limits in air:* None  
*Extinguishing media:* Carbon Dioxide, dry chemical, foam. Avoid water if possible. *Special fire fighting procedures:* None  
*Hazardous combustion products:* Combustion will result in the release of the usual decomposition products including oxides of carbon and nitrogen.  
*Unusual fire hazards:* None

**6. ACCIDENTAL RELEASE MEASURES**

*For Small Spills:* Wipe up, or absorb with sand or other absorbent material. Collect waste in sealed containers.  
*For Large Spills:* Dike area to prevent spreading. Shovel or pump to drum or salvage tank. Absorb residual material with sand, or other absorbent material. Wash area with soapy water and rinse. Area will be slippery until cleaned.

Dispose of all product wastes and water rinses in accordance with current local, state, and Federal regulations.

**7. HANDLING AND STORAGE**

- Does not normally become airborne; in operations where it does, if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices.
- Wear nitrile gloves if direct contact likely; wear eye protection.
- Store product at 40-100°F in a well-ventilated area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<i>Respiratory protection:</i>	None
<i>Ventilation:</i>	Mechanical (general) sufficient
<i>Protective gloves:</i>	Recommended (rubber, nitrile)
<i>Eye protection:</i>	Recommended
<i>Work/Hygienic practices:</i>	Avoid breathing spray mist

**9. PHYSICAL PROPERTIES**

<i>Initial boiling point (bulk):</i>	212°F approx	<i>Vapor pressure:</i>	18 mmHg @ 20 °C
<i>Percent volatile:</i>	Not Established	<i>Vapor density:</i>	None established
<i>Density/sp. gravity:</i>	1.0 approx.	<i>Evaporation rate:</i>	1.0 (water = 1.0)
<i>Water solubility:</i>	100%	<i>Appearance:</i>	Clear water white liquid
<i>pH of concentrate:</i>	2.3		

**10. STABILITY AND REACTIVITY**

<i>Stability:</i>	Stable
<i>Incompatibility:</i>	Strong Bases
<i>Hazardous decomposition products:</i>	None
<i>Reactivity:</i>	Will react with alkaline (basic) materials

**11. TOXICOLOGICAL INFORMATION**

<i>Carcinogenicity:</i>	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
<i>Threshold limit value:</i>	Not established.
<i>WHMIS information (Canada):</i>	According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.

**12. ECOLOGICAL INFORMATION**

No data is available. It dissolves into water and is biodegradable. Its low vapor pressure may exempt it from VOC restrictions.

**13. DISPOSAL**

Dispose according to Federal, State and Local laws and 40 CFR.

*RCRA:* This product, if deemed unusable and classified as "waste" is a RCRA hazardous waste carrying waste code D002 (Corrosive).

*Note:* Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

**14. TRANSPORTATION****U.S. DOT: 49 CFR 172.101 Hazardous Materials Table**

	<u>Non-Aerosol</u>
<i>Proper shipping name:</i>	Not regulated
<i>Hazard class or division:</i>	None
<i>Identification No.:</i>	None
<i>Packing Group:</i>	None

**15. REGULATORY INFORMATION**

<i>TSCA:</i>	All ingredients are listed in TSCA inventory.
<i>CERCLA:</i>	Not reportable.
<i>SARA TITLE III, Section 313:</i>	Contains nothing on this list.
<i>California Proposition 65:</i>	Contains nothing on this list.
<i>WHMIS Class (Canada):</i>	Not a controlled product.

**Note:** This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

**16. OTHER INFORMATION**

<i>Revision Statement:</i>	Original
<i>Supersedes:</i>	Original
<i>Prepared by:</i>	Shawn Kilty, Research Chemist