MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-3; Flammability-0; Reactivity-2; Special- COR	**HMIS Rating:** Health-3; Flammability-0; Reactivity-2; Personal Protection-C,D
Manufactured For: **K&K CHEMICAL CO.** Address: 1303 Industrial Drive Royse City, TX 75189	**DOT Hazard Classification:** SULFURIC ACID 8 **Identity** (trade name as used on label) **RAM-OUT IV** (K-724)
Date Prepared: 4/13/2010 Prepared By: JAM	**MSDS Number:** 0916-9999 Revision - 1
Information Calls: 1(800)958-6921 **EMERGENCY RESPONSE NUMBER: 1(800)424-9300** CHEMTREC	NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
SULFURIC ACID	7664-93-9	Yes	1mg/M3	1mg/M3	b

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 580 F	**Specific Gravity:** (H2O=1): 1.83
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	**Vapor Pressure:** (Non-Aerosols)(mm Hg and Temperature): <0.01 @ at 68 F
Vapor Density: (Air = 1): N/A	**Evaporation Rate:** (BuAc= 1): <1
Solubility in Water: Complete	**Water Reactive:** Violently
Appearance and Odor: Red translucent liquid with acidic odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A

FLASH POINT AND METHOD USED (non-aerosols): None **EXTINGUISHER MEDIA:** CO2 or dry chemical. Use water fog to knock down vapors.	**SPECIAL FIRE FIGHTING PROCEDURES:** Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. DO NOT allow water to enter containers. Violent reaction results.

Unusual Fire & Explosion Hazards: Solutions in contact with metals form hydrogen. Water or foam will cause frothing, which can cause violent reactions.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [ ] UNSTABLE	**HAZARDOUS POLYMERIZATION** [ ] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to avoid): Solvents,oxidizers,reducing agents,combustible materials,organic materials, alkalis,powdered metals,amines,carbides,fulminates chlorates,nitrates,picrates.	**Conditions to Avoid:** Heating. Water on sulfuric acid will cause splattering, fuming and evolution of heat.

Hazardous Decomposition Products: Oxides of sulfur. Hydrogen may be evolved in contact with metal.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [X] INHALATION [X] INGESTION [X] SKIN ABSORPTION [X] EYE [ ] NOT HAZARDOUS

ACUTE EFFECTS Burns, rapid destruction of all tissue contacted.

Inhalation: May cause respiratory irritation. Liquid is extremely corrosive.

Eye Contact: Corrosive. Contact can cause blindness.	**Skin Contact:** Corrosive. Any contact will cause burns, leaving marks.

Ingestion: Corrosive. May be fatal if swallowed.

CHRONIC EFFECTS:: Dermatitis or secondary effects of burns, chronic over-exposure may cause tooth erosion, chronic cough. IARC has determined that mists and vapors of sulfuric acid are cancer causing agents.

Medical Conditions Generally Aggravated by Exposure: Disorders of the lungs may be aggravated by asthma-like conditions.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes while holding eyelids apart. Seek immediate medical attention.

Skin Contact: Flush with water for 15 minutes. Seek immediate medical attention.

Inhalation: Remove victim to fresh air. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Immediately rinse mouth. Drink large volumes of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Not needed in normal use and handling of product. If mists, sprays or vapors develop during use, wear respirators.

Protective Gloves: Rubber	**Eye Protection:** Chemical goggles and faceshield.

Ventilation Requirements: Normal room ventilation is usually adequate. As required to keep air concentration below PEL.

Other Protective Clothing & Equipment: Coveralls, rubber apron and boots. Eyewash station and safety shower.

Hygienic Work Practices: Avoid contact with liquid & breathing of mists or vapors. Upon contact with eyes or skin, wash off with water immediately.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released:. Trained personnel should perform clean-up, wearing protective equipment. Cover spills with sodium bicarbonate (baking soda). Dike spill & soak up with inert absorbent. Shovel or sweep & place in properly labeled approved DOTcontainer & seal for disposal in authorized legal manner. Neutralize area with soda ash (sodium carbonate) or baking soda & dispose of material properly.

Waste Disposal Methods: Dispose of material according to local, state or federal regulations.

Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Follow label directions when using. Never add water to this product.

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only