

ETK ACID TEST KIT (revised July 2004)

Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

PRODUCT: ETK ACID TEST KIT

CAT. NO.: ETK

MANUFACTURED BY:
Virginia KMP Corporation
4100 Platinum Way
Dallas, Texas 75237

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SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA
OSHA PEL **ACGIH TLV**

Toluene (CAS# 108-88-3)

100 ppm 100 ppm

CL 300 ppm

PK 500 ppm / 10 min / 8 hr shift

Ethyl alcohol (64-17-5)

STEL 150 ppm STEL 150 ppm

1000 ppm 1000 ppm

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: DANGER! Flammable liquid. Inhalation may cause severe narcotic effects.

POTENTIAL HEALTH EFFECTS:

INHALATION: Causes irritation of respiratory tract, nervous system depression, headaches, dizziness, staggering gait, confusion, unconsciousness and coma. Aspiration causes rapidly developing pulmonary edema.

EYE CONTACT: Irritation develops immediately after contact with liquid or vapor.

SKIN CONTACT: Irritation develops after prolonged contact with liquid or vapor. Aggravates pre-existing skin disorders.

INGESTION: Causes gastrointestinal distress, irritation and possible nausea. May cause CNS depression.

CHRONIC Effects: Kidney and liver damage; bone marrow and blood changes.

NOTE: Ethyl alcohol is on IARC list only as beverage.

CARCINOGENICITY: LISTED IN NTP? No

IARC? No

OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Remove victim to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.

EYE CONTACT: Flush eyes with water for 15 minutes. Get medical attention if symptoms develop and persist.

SKIN CONTACT: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

INGESTION: Do not induce vomiting. Rinse mouth out with water. Get immediate medical attention.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): 4.4 C (ASTMD92), 40 F

FLAMMABLE LIMITS: LOWER: 1.4%

UPPER: 7.0%

AUTOIGNITION TEMPERATURE:

GENERAL HAZARD: Flashback along vapor trail, vapor may explode if in contained area.

FIRE FIGHTING INSTRUCTIONS: Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on the downwind side. Firefighters wear protective clothing and self-contained breathing apparatus. Cool exposed containers with water.

EXTINGUISHING MEDIA: Alcohol foam, CO₂, dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Acrid smoke, irritating fumes, CO, CO₂.

SECTION VI - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Eliminate all ignition sources. SMALL SPILLS: Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse. LARGE SPILLS: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.

WATER SPILL: Notify proper authorities. Clean up leaks/spills immediately to prevent soil or water contamination.

SECTION VII - HANDLING AND STORAGE

HANDLING: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

STORAGE: Store in a cool place away from ignition sources. Store away from oxidizers.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Local exhaust ventilation is recommended.

PERSONAL PROTECTION: NIOSH approved respirator, chemical resistant gloves, chemical goggles or full-face shield. Boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: 19 mmHg
SPECIFIC GRAVITY (H₂O=1): 0.86
SOLUBILITY IN WATER: Partially

pH: NA
BOILING POINT: 172 F

APPEARANCE & ODOR: Clear liquid, solvent odor.

VAPOR DENSITY (Air=1): 1.6
EVAPORATION RATE (BuAc=1): <1
VOC (G/L): 860
FREEZING POINT:

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Heat and flames, lack of ventilation.

MATERIALS TO AVOID: Oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: From combustion: Acrid smoke, irritating fumes, CO, CO₂.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

Ethyl alcohol	TDL _o :	41 g/kg	(oral - wmn)
	TDL _o :	50 g/kg	(oral - man)
	LDL _o :	1400 mg/kg	(oral - human)
	LC50:	20000 ppm/10 hr	(inh - rat)
Toluene	300 ppm	(eye - human)	

SECTION XII - ECOLOGICAL INFORMATION

Dangerous to aquatic life at high concentrations.	Ethyl alcohol	250 ppm / 6 hr / goldfish / lethal / fresh water
	Toluene	1180 mg/L / 96 hr / sunfish / TLm / fresh water

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Consumer commodity ORM-D

HAZARD CLASS: NA

IDENTIFICATION NUMBER: NA

DOT Emergency Guide #: 128

Reportable Quantity (RQ): Not applicable

International: Flammable liquids, n.o.s., (toluene, ethanol), 3, UN 1993, PG II, LTD QTY

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Reportable quantity is 1000 pounds (toluene). Contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act): Section 313:Toluene (CAS# 108-88-3) 40-60%

CALIFORNIA PROPOSITION 65: Toluene (CAS# 108-88-3) is listed.

SECTION XVI - OTHER INFORMATION

State Right-to-Know Programs: MA, NJ, PA

NFPA Ratings

Health: 2

Flammability: 3

Reactivity: 0

HMIS Protective Equipment: X See your supervisor

Prepared by: Virginia KMP Corporation

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