

MATERIAL SAFETY DATA SHEET

PRODUCT

ACID TEST KIT TA-1

MANUFACTURER

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PRODUCT DESCRIPTION

TA-1 consist of three bottles; two of neutralizer, and one of indicator solution. TA-1 is a one-time disposable kit.

PRODUCT COMPOSITION

PRODUCT	INGREDIENT	CAS #	%	TWA
Indicator	*Xylene (Xylol)	1330-20-7	62	100 ppm
	Ethyl Alcohol	64-17-5	36	1000 ppm
	* Toluene	108-88-3	2	100 ppm
	Phenol Red	—	trace	—
Neutralizer	Ethyl Alcohol	64-17-5	95	1000 ppm
	* Toluene	108-88-3	4	100 ppm
	Water	—	1	—
	Sodium Hydroxide	1310-73-2	trace	—
	Potassium Hydroxide	1310-58-3	trace	—

Toluene component comes from the denaturant used in ethyl alcohol.
The "mixed Xylene" used is primarily m-Xylene.

*These are SARA Title III, Section 313 chemicals.

PHYSICAL DATA

	<u>INDICATOR</u>	<u>NEUTRALIZER</u>
Specific Gravity	0.833	0.880
Solubility in Water	Slight	Complete
pH	Neutral	Alkaline
Appearance	Yellow-Orange-Red	Clear, Colorless
Boiling Point		182°F
Melting Point		-75°F
Vapor Pressure		40 mm Hg @ 25°C
Vapor Density		Heavier than Air (Approx 2.0)
Percent Volatile		Essentially 100%

FIRE AND EXPLOSION DATA

LOWER FLAMMABILITY LIMITS (%IN AIR):

FLASH POINT(°F): INDICATOR: 44 NEUTRALIZER: 60

Both solutions are classified as flammable liquids. the vapor of both solutions has a moderate explosion hazard when exposed to heat or flame. The recommended extinguishing media is carbon dioxide, dry chemical, or foam. No information is available on special fire fighting procedures or unusual fire and explosion hazards.

INDICATOR & NEUTRALIZER: 2

HEALTH INFORMATION

The solvents used in these solutions represent a health hazard if the vapors are inhaled, if the liquid is swallowed, or if absorbed thru the skin. However, the health hazard is limited. The materials used in the Acid Test Kits are not known to be carcinogens.

EFFECTS OF OVER EXPOSURE - Irritation of the eyes and respiratory tract. Prolonged contact may cause headaches, dizziness, or unconsciousness.

EMERGENCY AND FIRST AID PROCEDURES - Inhalation- Remove to fresh air, if discomfort persists contact a physician. Ingestion- Contact a physician immediately! Do not induce vomiting. Eye Contact- Flush with water for 15 minutes and contact a physician. Skin Contact- Flush with water.

REACTIVITY DATA

The materials are considered stable, and hazardous polymerization will not occur. Keep away from heat and avoid oxidizing materials. Hazardous decomposition products: None known.

SPILL OR LEAK PROCEDURES

Keep heat or ignition sources away, and ventilate the area. Small amounts may be flushed away with water or mopped up. Larger amounts may be collected with absorbent material. Avoid inhaling vapors or skin contact.

WASTE DISPOSAL METHOD- Collect for incineration or in compliance with local pollution regulations.

SPECIAL PROTECTION INFORMATION

Ventilate properly to keep concentration below lowest TWA value. For higher concentrations use an approved respirator. Safety goggles are recommended. Protective gloves, if used, must not dissolve in solvents. Do not store solutions above 120°F.

SHIPPING INFORMATION

Domestic Shipments VIA Land: The materials used in manufacturing Acid Test Kits are classified as flammable. However because of the limited quantity involved, the kits fall under the federal regulations for Consumer Commodities and are classified as ORM-D. With this classification the box must be marked to show the proper shipping name of "Consumer Commodity" and the hazard class, "ORM-D". The packages are then exempt from labeling, placarding, shipping papers, and shippers certificate.

International VIA Ship: Shipment of this material by ocean must comply with the "International Maritime Dangerous Goods Code". The materials are classified as "limited quantities of class 3" under I.M.D.G. code.