

SAFETY DATA SHEET

Item Code: T0117

Section 1.	Identification of the material and the supplier
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Item Code:	T0117
Product:	ETK Acid Test Kit
Product Use:	Acid Test
New Zealand Supplier:	Realcold Ltd
Address:	9 Prescott Street Penrose, Auckland
Telephone:	09 526 5700
Fax Number:	09 526 5721
Emergency Telephone:	09 526 5700 0800 766 764 (National Poison Centre)
Manufacturer:	Virginia KMP Corp, 4100 Platinum Way Dallas, Texas, USA
Date of MSDS Preparation:	14 march 2017 – version 2

Section 2.	Hazards Identification
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This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

**Group Standard & EPA Approval Code:
Laboratory Chemical and Reagent Kits – HSR002596**

Pictograms



Flammable



Toxic



Chronic

HSNO Class.	Hazard Code	Hazard Statement	EU Risk Phrases
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3.1B	H225	Highly flammable liquid and vapour.	R11
6.1E (inhalation)	H333	May be harmful if inhaled.	R20
6.3A	H315	Causes skin irritation.	R38
6.4A	H319	Causes eye irritation	R36
6.8B	H361	Suspected of damaging fertility or the unborn child	R62/R63
6.9B	H373	May cause damage to organs through prolonged or repeated exposure	R48
9.1D	H402	Harmful to aquatic life.	R53
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P104	Read safety data sheet before use
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from sparks and open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical, ventilating and lighting
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes and vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing and equipment

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical attention.
P370 + P378	In case of fire: Use alcohol foam, CO ₂ , dry chemical

Storage Code Storage Statement

P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code Disposal Statement

P501	Triple rinse and dispose of according to the local regulations.
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Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Toluene	30-60	108-88-33
Ethyl Alcohol	30-60	64-17-5

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if able to do so. Call a physician immediately.

If on Skin	Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. Get medical assistance if needed.
If Swallowed	If swallowed, call a physician immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical assistance if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. If needed immediately begin artificial respiration. Keep at rest until fully recovered. Give oxygen if breathing is labored. Get medical help if needed.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Liquid
Hazards from decomposition products	Flashback along vapor trail, vapor may explode if in contained area.
Suitable Extinguishing media	Foam, dry agent (carbon dioxide, dry chemical powder).
Precautions for firefighters and special protective clothing	Heating can cause expansion or decomposition leading to violent rupture of containers. Can melt and flow in a fire situation. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
HAZCHEM CODE	3YE

Section 6. 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 7. 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 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Toluene (Aust)	50	191	150	574
Toluene (NZ)	50	188	-	-
Ethanol	1,000	1,880	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal Protection

Overalls, safety shoes, safety glasses, gloves, respirator.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9 Physical and Chemical Properties

Appearance	Clear Liquid
Odour	Solvent
Flash Point	4.4°C
Boiling Point	77°C
Lower & Upper Flammability Limits	1.4% - 7.0%
Vapour Pressure	19mmHg
Vapour Density (Air=1)	1.6
Specific Gravity (water = 1)	0.86
Solubility in Water	Partially
Evaporation Rate (BuAc=1)	<1
VOC(G/L)	860

Section 10. Stability and Reactivity

Stability of Substance	Stable
Conditions to Avoid	Heat and flames, lack of ventilation
Incompatible Materials	Oxidisers
Hazardous Decomposition Products	From combustion: Acrid smoke, irritating fumes, CO, CO ₂

Section 11 Toxicological Information

Product Name: ETK Acid Test Kit Item No: T0117 Issued by: Realcold Ltd
Date of MSDS: 18 June 2012 Tel: 64 9 526 5700

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation:

Material may be irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact:

Contact with skin will result in irritation. Some component/s of this material can be absorbed through the skin with resultant toxic effects.

Eye contact:

May be an eye irritant.

Ingestion:

Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituent:

Toluene

Oral LD50 (rat):	636 mg/kg
Dermal LD50 (rabbit):	14,100 uL/kg
SKIN: (Draize):	Mild to moderate irritant
EYES: (Draize):	Mild to moderate irritant

The major effects in humans following acute exposure to high concentrations (such as in deliberate sniffing or industrial accidents) are central nervous system dysfunction and narcosis.

Under controlled conditions, inhalation of 50, 75 or 100 ppm of toluene for 4 to 6 hours was associated with headache and irritation. There are also numerous reports of altered central nervous system performance among humans inhaling 40 ppm to more than 100 ppm.

Both bioassay tests and other available data (including two human studies) indicate that toluene is not carcinogenic.

Based on available in-vivo data, studies of humans are inconclusive with regard to genotoxicity, while most in-vitro studies indicate negative results for toluene.

While there have been some reported developmental effects in experimental animal testing involving toluene, studies do not provide evidence that toluene is teratogenic following inhalation.

Section 12. Ecotoxicological 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 13. Disposal Considerations

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

Section 14 Transport Information

Classified as a Dangerous Good for transport in NZ ; NZS 5433:2007

Road Transport

UN No: 1993
Class-primary 3
Packing Group II
Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S (TOLUENE, ETHANOL)

Air Transport

UN No: 1993
Class-primary 3
Packing Group II
Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S (TOLUENE, ETHANOL)

Marine Transport

UN No: 1993
Class-primary 3
Packing Group II
Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S (TOLUENE, ETHANOL)

Section 15 Regulatory Information

EPA Approval Code: Laboratory Chemical and Reagent Kits – HSR002596

HSNO Classification: 3.1B, 6.1E, 6.3A, 6.4A, 6.8B, 6.9B, 9.1D, 9.3C

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	250L ≥ if container ≥ 5L 500L ≥ if container ≤ 5L
Location Certificate	100L (>5L), 250L (<5L); 50L open.
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250L
Emergency Response Plan trigger Quantities	1000L

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.
Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

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Date of MSDS: 18 June 2012 Tel: 64 9 526 5700

Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

Issue Date: 18 June 2012

Review Date:

18 June 2017