



**Kem Canada Mfg., 4 Blair Dr., Brampton, Ontario L6T 2H5**

**WHMIS: D2B**

**1. PRODUCT IDENTIFICATION:**

<b>PRODUCT NAME:</b> HARDNESS TITRANT (0.0125N)	<b>PRODUCT CODES:</b> TR137060 / TR137100 / TR137140 /
<b>MSDS DOCUMENT CODE:</b> TR137099	TR137500

**2. HAZARDOUS INGREDIENTS**

Name	CAS #	% Range	TLV	LD <sub>50</sub> (Oral Rat)	LC <sub>50</sub> (Inh. Rat)
Ethylene Diamine Tetra Acetic Acid	64-02-8	0.1-1.0	No data	3030 Mg/Kg	No Data

**3. PHYSICAL DATA:**

<b>Odour and Appearance:</b> Clear, colourless liquid; odourless.	<b>Specific Gravity:</b> 1.00	<b>Vapour Pressure:</b> 2.3 KPa @20°C	<b>Vapour Density:</b> (Air-1) <1
<b>Odour Threshold:</b> None			
<b>Evaporation Rate:</b> Same as water	<b>Solubility in Water:</b> Soluble	<b>Boiling Point:</b> 100°C	<b>Freezing Point:</b> 0 °C

**% Volatile (by wt.):** >99    **pH (100% Sol'n):** 8    **Density:** Not applicable    **Coeff. Oil/Water Distr:** Not available

**4. FIRE & EXPLOSION DATA:**

**Flash Point (method):** None    **LEL:** Not applicable    **UEL:** Not applicable    **Autoignition Temp.** Not applicable

**Extinguishing Media:** As appropriate for surrounding materials.

**Hazardous Combustion Products:** Trace amounts of oxides of carbon, sodium and nitrogen, ammonia.

**Special Fire Fighting Procedures:** As appropriate for surrounding materials.

**Unusual Fire & Explosion Hazards:** None

**5. REACTIVITY DATA:**

**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatibility:** Strong oxidizing agents, acids.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen, ammonia.

**6. HEALTH HAZARD DATA:**

**Primary Route of Entry:**    **Eyes:** Yes    **Skin:** No    **Inhalation:** No    **Ingestion:** Yes

**Acute Effects:**

**Eyes:** May cause irritation.

**Ingestion:** Swallowing may cause irritation of mouth, throat and esophagus.

**Chronic Effects:** No data.

**7. FIRST AID PROCEDURES:**

**Eye Contact:** Flush with running water for at least 15 minutes. Get medical attention if symptoms occur..

**Skin Contact:** Wash thoroughly with soap and water. Remove and launder contaminated clothing. Get medical attention if irritation occurs.

Launder contaminated clothing before reuse.

**Ingestion:** Do not induce vomiting. Have person drink water. Do not give fluids if person is unconscious or convulsing. Consult a physician.

**8.0 TOXICOLOGICAL DATA:**

**Carcinogenic, Mutagenic, Teratogenic, Reproductive Effects:** None known.

**9. SPILL & DISPOSAL PROCEDURES**

**Spill & Leak:** Transfer to suitable container for disposal. Flush remaining material with volumes of water.

**Disposal:** Dispose of in accordance with all Local, Provincial and Federal regulations.

**10. PRECAUTIONARY MEASURES**

**Personal Protective Equipment:**

**Gloves:** None for normal use    **Respiratory:** None    **Eyes:** Safety goggles    **Footwear:** No special requirements

**Clothing:** No special requirements    **Other:** Eye wash and safety shower.    **Ventilation:** No special requirements.

**Handling:** Avoid contact with eyes. Wash thoroughly after handling.

**Storage:** Store in a cool area. Keep from freezing. Keep container closed when not in use.

**11. TDG SHIPPING INFORMATION:**

**Shipping Name:** Not regulated

**Class:**    **UN No.**    **Packing Group:**

**12. PREPARATION INFORMATION:**

**Date Prepared/Reviewed:** October 7, 2003    **Tel. #** (905)-456-9444    **Fax. #** (905) 456-9447

The information above has been obtained from reliable sources and is believed to be accurate but does not claim to be all inclusive and should be only used as a guide.