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**Rainbow Technology Corp.**  
Tel: 1.800.637.6047 / 205.733.0333  
RTC Product #79374

## MATERIAL SAFETY DATA SHEET

**PRODUCT:** Q-Tel 2004 C-Cement

Prepared: 27 May 2014  
Supersedes: 11 February 2008

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product:** Q-Tel 2004 C-Cement  
**Chemical Family:** Rubber-based adhesive  
**Product Use:** Cement adhesive  
**Responsible Party:** Chemque, Inc.  
266 Humberline Drive  
Rexdale, ON  
M9W 5X1 CANADA  
**Telephone Number:** (416) 679-5676  
**In Emergency Only:** CANUTEC Collect: (613) 996-6666 (24-hour hotline)  
Information: (613) 992-4624

### SECTION 2: HAZARDS IDENTIFICATION

**Emergency Overview:** Black liquid.  
Distinct odour.  
Vapours are extremely flammable.

**Potential Health Effects:** Eyes – Mild irritant.  
Skin – Irritant. Prolonged or repeated contact can lead to reddening, swelling, blistering.  
Inhalation – Irritant. Excessive inhalation of vapours may cause irritation of nose and throat, central nervous system depression and arrhythmia.  
Ingestion – Ingestion of excessive quantities may cause irritation of the digestive tract. Aspiration hazard.  
Chronic Effects – N/E

### SECTION 3: HAZARDOUS INGREDIENT INFORMATION

Ingredient	% (W/W)	CAS Number
n-Heptane	30-60	142-82-5

### SECTION 4: FIRST AID MEASURES

**Eyes:** Flush eyes with water for 15 minutes. Call a physician if any irritation persists.

**Skin:** Remove affected clothing. Wash skin with soap and water. Wash contaminated clothing before re-use. Contact physician if irritation persists.

**Inhalation:** Move to fresh air. If breathing difficulties persist, seek medical attention.

**Ingestion:** Do not induce vomiting or give anything by mouth. May be aspirated into the lungs causing chemical pneumonitis. Consult a physician immediately.

## Safety Data Sheet (SDS)

### SECTION 5: FIRE FIGHTING MEASURES

<b>Flammable Properties:</b>	Vapours are heavier than air and are extremely flammable. Vapours may form an explosive mixture with air.  Isolate from heat, electrical equipment, sparks and open flame. In case of fire, use water to cool adjacent containers. Be careful not to spread burning liquid with water.
<b>Extinguishing Media:</b>	CO <sub>2</sub> , foam, dry chemical, water spray.
<b>Protection of Fire Fighters:</b>	Self contained breathing apparatus and full protective clothing should be worn by fire fighters.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protective equipment as recommended in Section 8.
<b>Environmental Precautions:</b>	Do not empty into drains or discharge into the soil/subsoil.
<b>Methods for Containment:</b>	Keep spilled liquid away from sources of ignition and hot surfaces. Cover spill with suitable absorbent material. Remove for disposal.
<b>Methods for Clean-Up:</b>	Flush spill area with water.

### SECTION 7: HANDLING AND STORAGE

<b>General Warning to Prevent Exposure:</b>	Do not breathe fumes or vapours. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep away from sources of heat and ignition.
<b>General Storage Information:</b>	Store in tightly-sealed containers in a cool, dry area. Keep away from all sources of heat, ignition, sparks and open flames.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredient	Exposure Limit	Unit
n-Heptane	400 (TLV – TWA)	ppm
<b>Engineering Controls:</b>	Use local exhaust ventilation to keep vapour concentrations below TLV.	
<b>Personal Protective Equipment:</b>	<u>Eyes:</u> Chemical goggles; face shield if risk of splashing is present. <u>Skin:</u> Polyvinyl or rubber gloves. Protective clothing. <u>Inhalation:</u> Approved organic respirator if TLV is exceeded. <u>Other:</u> Safety shower, eye bath.	

## Safety Data Sheet (SDS)

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Black liquid
<b>Odour:</b>	Distinct
<b>Melting Point:</b>	N/E
<b>Boiling Point:</b>	90-100 C
<b>Flash Point:</b>	-4C (24.8 F) n-Heptane
<b>Evaporation Rate:</b>	> 1
<b>Upper/Lower Flammable Limits:</b>	N/E
<b>Vapour Pressure @ 77°F:</b>	N/E
<b>Vapour Density (Air = 1):</b>	> 1
<b>Specific Gravity:</b>	0.85
<b>Solubility:</b>	Insoluble
<b>VOC content:</b>	400-460 g/L

### SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Excessive heat, sources of ignition, open flames, hot surfaces.
<b>Incompatible Materials:</b>	Strong oxidizing agents, strong acids, strong bases.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide and carbon monoxide on combustion.
<b>Possibility of Hazardous Reactions:</b>	Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Dose Toxicity:</b>	n-Heptane	Inhalation, LC <sub>50</sub> :	103 g/m <sup>3</sup> /4h (rat)
<b>Repeated Dose Toxicity:</b>	N/E		
<b>Sensitization:</b>	N/E		
<b>Carcinogenicity:</b>	N/E		
<b>Neurological Effects:</b>	Excessive inhalation of vapours may cause CNS depression.		
<b>Genetic Effects:</b>	N/E		
<b>Reproductive Effects:</b>	N/E		
<b>Developmental Effects:</b>	N/E		
<b>Target Organ Effects:</b>	N/E		

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### SECTION 12: ECOLOGICAL INFORMATION

**Biodegradability** Not readily biodegradable.

### SECTION 13: DISPOSAL CONSIDERATIONS

Recover or recycle if possible. Dispose of this material in accordance with local, provincial and federal laws and regulations. All provided information only applies to the material as supplied to the user. The characteristics outlined may not apply if the material has been used or otherwise contaminated. It is the responsibility of the user to determine the proper waste identification and disposal methods in compliance with applicable regulations.

### SECTION 14: TRANSPORT INFORMATION

“LIMITED QUANTITY”

### SECTION 15: REGULATORY INFORMATION

**Canadian Regulations:** As per WHMIS, this material is classified:  
**B2** (Flammable Liquid)  
**D2B** (“Poisonous Material Causing Serious and Toxic Effects”) - Toxic  
 All of the components of this material appear on the “Domestic Substances List” (DSL).  
 This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all of the information required in the *Controlled Products Regulations*.

**US Regulations:** This material is classified as hazardous under OSHA regulation 29 CFR 1910.1200.  
 SARA Title III: This product does not contain any chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372:  
 All of the components of this material appear on the “Toxic Substances Control Act” (TSCA) inventory.

### SECTION 16: OTHER INFORMATION

**Abbreviations:** N/E Not established

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