

## SECTION 1 - Product Identification &amp; Use

|                              |                |                      |                     |
|------------------------------|----------------|----------------------|---------------------|
| <b>COMMON NAME:</b>          | Breaker 200    | <b>MANUFACTURER:</b> | <b>DISTRIBUTOR:</b> |
| <b>MATERIAL IDENTIFIER:</b>  | 0970           | Sci-Tech Inc.        |                     |
| <b>APPLICATION:</b>          | Oil and Gas    | #340 53016 Hwy 60    |                     |
| <b>WHMIS CLASSIFICATION:</b> | B, D.2A, D.2B  | Acheson, AB T7X 5A7  |                     |
| <b>EMERGENCY CONTACT:</b>    | CANUTEC        | (780) 960-1200       |                     |
| <b>EMERGENCY PHONE:</b>      | (613) 996-6666 |                      |                     |

## SECTION 2 - Hazardous Ingredients

| HAZARDOUS INGREDIENTS           | %       | CAS/UN #   | LD(50) OF INGREDIENT  | LC(50) OF INGREDIENT |
|---------------------------------|---------|------------|-----------------------|----------------------|
| Toluene                         | 40 - 70 | 108-88-3   | Rat (Oral) 5580 mg/kg | Rat 26700 ppm 1h     |
| Alkoxylated Phenol Formaldehyde | 15 - 40 | 63428-92-2 | n.av.                 | n.av.                |

## SECTION 3 - Physical Data

|                          |                                |                             |                              |
|--------------------------|--------------------------------|-----------------------------|------------------------------|
| <b>PHYSICAL STATE:</b>   | <b>ODOUR AND APPEARANCE:</b>   | <b>SOLUBILITY IN WATER:</b> | <b>ODOUR THRESHOLD:</b>      |
| Liquid                   | Aromatic; Amber                | 0%                          | n.av.                        |
| <b>SPECIFIC GRAVITY:</b> | <b>VAPOUR DENSITY (air=1):</b> | <b>VAPOUR PRESSURE:</b>     | <b>% VOLATILE BY VOLUME:</b> |
| 0.92 ± 0.02              | n.av.                          | n.av.                       | n.av.                        |
| <b>BOILING POINT:</b>    | <b>MELTING POINT:</b>          | <b>pH:</b>                  | <b>OCTANE-WATER COEFF:</b>   |
| n.av.                    | n.av.                          | 7.0 ± 0.5                   | n.av.                        |

## OTHER PERTINENT INFORMATION:

n.av.

## SECTION 4 - Fire &amp; Explosion Data

|  |   |       |
|--|---|-------|
| <b>FLAMMABILITY:</b>   | <b>FLASHPOINT (°C):</b>                     | n.av. |
| Combustible material   | <b>AUTOIGNITION TEMPERATURE (°C):</b>       | n.av. |
| <b>MEANS OF EXTINCTION:</b>  | <b>LOWER FLAMMABLE LIMIT (% BY VOLUME):</b> | n.av. |
| Use dry chemicals, carbon dioxide, foam, water fog or fine spray.<br>Do not use direct water stream.                     | <b>UPPER FLAMMABLE LIMIT (% BY VOLUME):</b> | n.av. |
| <b>SPECIAL PROCEDURES:</b>   | <b>EXPLOSION SENSITIVITY TO IMPACT:</b>     | n.av. |
| It is recommended that a NIOSH approved SCBA be used when<br>either in confined areas or exposed to combustion products. | <b>SENSITIVITY TO STATIC DISCHARGE:</b>     | n.av. |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b>  |   |       |
| Carbon dioxide and carbon monoxide   |   |       |

## SECTION 5 - Reactivity Data

|   |
|---|
| <b>CHEMICAL STABILITY:</b>  |
| Stable under normal conditions.   |
| <b>INCOMPATIBLE MATERIALS:</b>  |
| Avoid contact with natural, butyl and neoprene rubbers. Avoid prolonged contact with nitrile rubber or pvc. |
| <b>HAZARDOUS DECOMPOSITION:</b>   |
| May thermally decompose to produce carbon monoxide and carbon dioxide.                                      |

**SECTION 6 - Toxicological Properties****INHALATION:**

Vapours or mists may result in intoxication, drowsiness, stupor, narcosis and death.

**EYE CONTACT:**

May cause mild to moderate irritation as a concentrate.

**SKIN CONTACT:**

Skin absorption of material may produce systemic toxicity.

**INGESTION:**

May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**SECTION 7 - Preventative Measures**

**GLOVES:** Impermeable gloves required.

**FOOTWEAR:** Rubber boots required.

**RESPIRATOR:** NIOSH approved for ammonia if exposure exceeds occupational exposure limits.

**CLOTHING:** Impermeable coveralls required.

**EYEWEAR:** Chemical goggles or face shield required.

**OTHER:** Eye-wash station required.

**ENGINEERING CONTROL:**

For use only with adequate ventilation. Maintain airborne concentrations below the exposure guidelines.

**LEAK AND SPILL PROCEDURE:**

Confine spillage and absorb with sand, sawdust or other available solids. Uncontaminated spilled material may be reused. Retain all contaminated water for removal and treatment. Do not flush to sewer.

**WASTE DISPOSAL:**

Dispose of in a suitable container according to all local, provincial and federal regulations.

**HANDLING PROCEDURES AND EQUIPMENT:**

Use explosion-proof electrical equipment when transferring. Ensure proper electrical grounding procedures are in place.

**STORAGE REQUIREMENTS:**

Store in a cool, dry area above freezing and away from incompatibles. Keep container tightly closed when not in use. Protect from damage.

**TDG CLASSIFICATION:**

Flammable liquid n.o.s. (toluene) Class 8, UN 1993, PG II

**SECTION 8 - First Aid Procedures****INHALATION:**

Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. Immediately transport victim to an emergency care facility.

**EYE CONTACT:**

In case of contact with eyes, check for and remove contact lenses. Immediately flush with cold running water for at least 15 minutes. Seek medical attention immediately.

**SKIN CONTACT:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse.

**INGESTION:**

DO NOT INDUCE VOMITING. If vomiting occurs, lean victim forward to prevent aspiration of the vomitus. Give a cup of water to dilute chemical in stomach. Seek immediate medical attention.

**SECTION 9 - Preparation of MSDS****PREPARED BY:**

SCI-TECH Department of Research and Development

**PHONE NUMBER:**

(780) 960-1200

**CONSTRUCTED:**

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