

## MATERIAL SAFETY DATA SHEET

DD 2000

**SECTION I – Product Identification**

|                                    |   |
|------------------------------------|---|
| MANUFACTURER'S NAME:               | Control Chemical (1989) Corporation                                       |
| MANUFACTURER'S ADDRESS:            | 7016, 30 <sup>th</sup> Street S.E.<br>Calgary, Alberta, Canada<br>T2C 1N9 |
| EMERGENCY PHONE NUMBER:            | (403) 720-7044  |
| SUPPLIER IDENTIFIER:               |   |
| SUPPLIER'S ADDRESS:                |   |
| SUPPLIER'S EMERGENCY PHONE NUMBER: |   |
| PRODUCT IDENTIFIER:                | DD 2000   |
| PRODUCT USE:                       | Drilling mud – Co-polymer of Acrylamide and Sodium Acrylate               |

**SECTION II – Hazardous Ingredients of Materials**

| Chemical Identity | Concentration | CAS#/NA#/UN# | LD (50) | LC (50) |
|-------------------|---------------|--------------|---------|---------|
|-------------------|---------------|--------------|---------|---------|

No regulated components.

This is not a WHMIS controlled product.

**SECTION III – Physical Data for Product**

|  |                                   |
|--|-----------------------------------|
| PHYSICAL STATE:                          | Solid                             |
| ODOUR AND APPEARANCE:                    | Granular white solid. Faint odour |
| ODOUR THRESHOLD:                         | Not available                     |
| SPECIFIC GRAVITY:                        | 0.80                              |
| VAPOR PRESSURE:                          | Very low                          |
| VAPOR DENSITY (Air = 1):                 | Not available                     |
| EVAPORATION RATE:                        | Not available                     |
| BOILING POINT:                           | Decomposes                        |
| FREEZING POINT:                          | Not available                     |
| pH:                                      | Not available                     |
| DENSITY (g/ml):                          | 0.80                              |
| COEFFICIENT OF WATER / OIL DISTRIBUTION: | Not available                     |

**SECTION IV – Fire and Explosion Hazard of Product**

|   |   |
|---|---|
| CONDITIONS OF FLAMMABILITY:             | Requires a source of ignition, the presence of air, and a temperature greater than the flash point. |
| MEANS OF EXTINCTION:                    | Use dry chemical, foam, or carbon dioxide. Water may cause excessive slipperiness                   |
| FLASHPOINT AND METHOD OF DETERMINATION: | No flash point  |
| UPPER EXPLOSION LIMIT (% by Vol):       | Not available   |
| LOWER EXPLOSION LIMIT (% by Vol):       | Not available   |

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|                                  |  |
|----------------------------------|--|
| AUTO-IGNITION TEMPERATURE:       | Not available                            |
| FLAMMABILITY CLASSIFICATION:     | Not available. Not a controlled product. |
| HAZARDOUS COMBUSTION PRODUCTS:   | Not available                            |
| EXPLOSION DATA:                  | Not available                            |
| SENSITIVITY TO STATIC DISCHARGE: | Not available                            |

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## SECTION V – Reactivity Data

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|                                   |   |
|-----------------------------------|---|
| CHEMICAL STABILITY:               | Stable under normal conditions. Hazardous polymerization will not occur |
| INCOMPATIBLE MATERIALS:           | Avoid strong oxidizing and reducing agents.                             |
| CONDITIONS OF REACTIVITY:         | Avoid contamination with reactive substances                            |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Not available   |

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## SECTION VI – Toxicological Properties of Product

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| ROUTES OF ENTRY:                       |  |
| SKIN CONTACT:                          | No effects of exposure expected due to contact. Prolonged contact may cause skin irritation or dermatitis in some individuals. |
| SKIN ABSORPTION:                       | No known hazard due to skin absorption   |
| EYE:                                   | No effects of exposure expected with the exception of possible irritation  |
| INHALATION:                            | May cause sneezing, slight irritation of nose and throat   |
| INGESTION:                             |  |
| ACUTE OVER EXPOSURE EFFECTS:           |  |
| CHRONIC OVER EXPOSURE EFFECTS:         | Skin irritation or dermatitis may occur upon frequent or prolonged contact.  |
| EXPOSURE LIMITS:                       | TWAEV = 0.03 mg/m <sup>3</sup> (skin) (Ont. Reg. 654/86).  |
| IRRITANCY OF PRODUCT:                  | Eye: mild irritant.  |
| SENSITIZATION TO MATERIAL:             | Repeated or prolonged contact may cause sensitization in some individuals  |
| CARCINOGENICITY, REPRODUCTIVE EFFECTS: |  |
| TERATOGENICITY, MUTAGENICITY:          | Not available  |
| TOXICOLOGICALLY SYNERGISTIC PRODUCTS:  | Not available  |

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## SECTION VII – Preventive Measures

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| PERSONAL PROTECTIVE EQUIPMENT: | Chemical goggles, impervious gloves, and protective clothing as required to prevent contact. Use a mechanical-filter respirator as required to prevent exposure. |
| SPECIFIC ENGINEERING CONTROLS: | General ventilation with a good source of make-up air recommended for all indoor situations  |

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|                                    |   |
|------------------------------------|---|
| LEAK AND SPILL PROCEDURES:         | Ventilate area. Wear rubber boots, gloves, and a self-contained breathing apparatus if ventilation is not adequate. Collect into waste container. Avoid raising dust. Wash spill site after material pickup. Water solutions are very slippery. May constitute a hazard following a spill |
| WASTE DISPOSAL:                    | Dispose of waste according to Federal, Provincial, and Municipal regulations.   |
| HANDLING PROCEDURES AND EQUIPMENT: | Avoid prolonged or frequent contact when handling material. Do not inhale dust or breathe vapor. Wear a NIOSH approved mechanical-filter respirator, if adequate ventilation cannot be provided. Avoid skin or eye contact.   |
| STORAGE REQUIREMENTS:              | Keep container closed when not in use. Store in cool and dry location away from oxidizing and reducing agents.  |
| SPECIAL SHIPPING INFORMATION:      | None  |

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### SECTION VIII – First Aid Measures

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| SPECIFIC FIRST AID PROCEDURES: | Skin contact: wash exposed area with soap and water. If irritation or abnormalities persist, call a physician.<br>Eye contact: Immediately flush eyes with water for 15 minutes and call a physician.<br>Inhalation: remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.<br>Ingestion: do not induce vomiting. If conscious, dilute by giving two glasses of water. Call a physician immediately. |
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### SECTION X – Preparation Date of Material Safety Data Sheet

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| PREPARED BY:              | Safety Committee |
| PHONE NUMBER OF PREPARER: | (403) 720-7044   |
| DATE PREPARED:            | April 28, 2011   |

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