

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **RB CATALYST L**

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Wireline cement additive

RESTRICTIONS ON USE: None known

SUPPLIER IDENTIFIER: **Di-Corp**  
**8750-53 Ave**  
**Edmonton, AB T6E 5G2**  
**780-440-4923**

EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Eye irritation – Category 2B  
Carcinogenicity – Category 1A

LABEL SYMBOLS:



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION:

Causes eye irritation.  
May cause cancer if inhaled.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
Store locked up.  
Dispose of contents and/or container in accordance with local, regional, national, and/or international regulations.

PRECAUTIONARY STATEMENTS:

OTHER HAZARDS: None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME              | CAS NUMBER | CONCENTRATION (w/w) |
|----------------------------|------------|---------------------|
| Ammonium chloride          | 12125-02-9 | 60 – 80%            |
| Quartz, crystalline silica | 14808-60-7 | 0.1 – 1.0%          |

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing. Wash contacted area thoroughly with soap and water. If irritation develops and persists, obtain medical attention.

EYE CONTACT: Flush with gently flowing warm water for minimum 15 minutes. If irritation persists obtain medical attention when flushing period is complete.

INGESTION: Rinse mouth with water. Drink plenty of water. If a significant amount is swallowed, or symptoms develop, obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

|  |  |
|--|--|
| INHALATION:                                      | Move away from dusty environment. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues obtain medical attention.                    |
| MOST IMPORTANT SYMPTOMS / EFFECTS:               | Contact will cause eye irritation. Long term inhalation of respirable crystalline silica can cause silicosis and may result in cancer. Ingestion of large quantity can be harmful. |
| IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: | Treat symptomatically.   |

## SECTION 5: FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| SUITABLE EXTINGUISHING MEDIA:               | Not combustible. Use media suitable for packaging and surrounding materials.   |
| UNSUITABLE EXTINGUISHING MEDIA:             | None.  |
| SPECIFIC FIRE HAZARDS:                      | At fire temperatures ammonium chloride begins to corrode metals and may dissociate into ammonia and hydrogen chloride. |
| HAZARDOUS COMBUSTION PRODUCTS:              | Ammonia, hydrogen chloride, oxides of carbon, oxides of sodium.  |
| SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS: | Self-contained breathing apparatus required for fire-fighting personnel.   |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Always wear suggested or required protective equipment. Keep out of sewers, storm drains, surface waters, and soil.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Sweep up and scoop to collect. Collect uncontaminated material for repackaging. Collect contaminated material in appropriate containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid breathing dust; wear an approved respirator. Wash thoroughly after handling. Launder contaminated clothing before reuse.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatible materials. Keep container tightly closed when not in use.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENT                            | EXPOSURE LIMITS  |
|---------------------------------------|--|
| Ammonium chloride                     | ACGIH TLV TWA = 10 mg/m <sup>3</sup><br>ACGIH STEL = 20 mg/m <sup>3</sup>  |
| Quartz, crystalline silica            | ACGIH TLV TWA = 0.025 mg/m <sup>3</sup>  |
| ENGINEERING CONTROLS:                 | Use local exhaust ventilation, process enclosure or other engineering controls as necessary to maintain airborne dust below TLV. |
| RESPIRATORY PROTECTION:               | PERSONAL PROTECTIVE MEASURES<br>Wear NIOSH approved dust masks or respirators for silica bearing dust.                           |
| PROTECTIVE GLOVES:                    | Impermeable gloves are recommended if there is an existing skin disorder.  |
| EYE PROTECTION:                       | Wear chemical goggles when handling.   |
| OTHER PROTECTIVE EQUIPMENT (SPECIFY): | As required to minimize contact with skin. Ensure eyewash station and emergency shower are available.                            |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                            |
|----------------------------------|----------------------------|
| APPEARANCE:                      | Bluish – gray powder       |
| ODOUR:                           | Very mild earthy odour     |
| ODOUR THRESHOLD:                 | Not applicable             |
| pH:                              | Not available              |
| MELTING POINT / FREEZING POINT:  | Not applicable             |
| BOILING POINT / RANGE:           | Not applicable             |
| FLASH POINT:                     | Not applicable             |
| EVAPORATION RATE:                | Not available              |
| FLAMMABILITY:                    | Not available              |
| FLAMMABILITY / EXPLOSIVE LIMITS: | Not available              |
| VAPOUR PRESSURE:                 | Not available              |
| VAPOUR DENSITY:                  | Not available              |
| RELATIVE DENSITY:                | Not available              |
| SOLUBILITY:                      | Partially soluble in water |
| PARTITION COEFFICIENT:           | Not available              |
| AUTO-IGNITION TEMPERATURE:       | Not available              |
| DECOMPOSITION TEMPERATURE:       | Not available              |
| VISCOSITY:                       | Not available              |

## SECTION 10: STABILITY AND REACTIVITY

|                                     |  |
|-------------------------------------|--|
| REACTIVITY:                         | None at normal conditions of storage or use.   |
| CHEMICAL STABILITY:                 | Stable at normal conditions of storage or use.   |
| POSSIBILITY OF HAZARDOUS REACTIONS: | Ammonium chloride reacts explosively with potassium chlorate or bromine trifluoride and violently with bromine pentafluoride, ammonium compounds, nitrates and iodine heptafluoride. Explosive nitrogen trichloride may result from reaction of ammonium chloride and hydrogen cyanide. Corrosive to ferrous metals (e.g. gray cast iron and steel), aluminum, and copper and its alloys (e.g. brass and bronze). It is corrosive to most metals at fire temperatures. |
| CONDITIONS TO AVOID:                | Incompatible materials. Moisture. Heat.  |
| INCOMPATIBLE MATERIALS:             | Strong bases, strong oxidizing agents, strong acids, ammonium nitrate, potassium chlorate, silver salts, bromine trifluoride, iodine hexafluoride.   |
| HAZARDOUS DECOMPOSITION PRODUCTS:   | Hydrogen chloride, ammonia, oxides of carbon, oxides of sodium.  |

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: ATE = 2360 mg/kg

### COMPONENT TOXICITY

| COMPONENT                  | LD50 ORAL     | LD50 DERMAL   | LC50 INHALATION |
|----------------------------|---------------|---------------|-----------------|
| Ammonium chloride          | 1650 mg/kg    | Not available | Not available   |
| Quartz, crystalline silica | Not available | Not available | Not available   |

|               |  |
|---------------|--|
| SKIN CONTACT: | Prolonged contact may cause irritation.  |
| EYE CONTACT:  | Causes moderate to severe irritation.  |
| INGESTION:    | May be harmful if swallowed; contains ammonium chloride which is moderately toxic. |

|                        |   |
|------------------------|---|
| INHALATION:            | Not a likely source of exposure. If dusted this product may cause irritation of the respiratory tract. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Chronic inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease. |
| CARCINOGENICITY:       | Contains crystalline silica, which when inhaled from occupational sources, is considered as a human carcinogen by IARC (Class 1) and by NTP. ACGIH classifies crystalline silica, quartz, as a suspected human carcinogen (A2).   |
| TERATOGENICITY:        | Not teratogenic based on available ingredient information.  |
| REPRODUCTIVE TOXICITY: | Not toxic based on available ingredient information.  |
| MUTAGENICITY:          | Not mutagenic based on available ingredient information. Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.  |
| CHRONIC TOXICITY:      | Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer and other effects.   |
| TARGET ORGAN EFFECTS:  | Damage to lungs.  |

## SECTION 12: ECOLOGICAL INFORMATION

|                                |                                  |
|--------------------------------|----------------------------------|
| ECOTOXICITY:                   | No product information available |
| PERSISTENCE AND DEGRADABILITY: | Not applicable                   |
| BIOACCUMULATIVE POTENTIAL:     | Not expected to bioaccumulate.   |
| MOBILITY IN SOIL:              | Not available                    |
| OTHER ADVERSE EFFECTS:         | Not available                    |

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

## SECTION 14: TRANSPORTATION INFORMATION

|                       |                        |
|-----------------------|------------------------|
| TDG:                  | Not regulated          |
| DOT:                  | Not regulated          |
| IATA:                 | Not regulated          |
| IMDG:                 | Not regulated          |
| UN NUMBER:            | Not applicable         |
| PROPER SHIPPING NAME: | Not applicable         |
| CLASS:                | Not applicable         |
| PACKING GROUP:        | Not applicable         |
| IMDG HAZARDS:         | Not a marine pollutant |
| BULK TRANSPORT:       | Not applicable         |
| SPECIAL PRECAUTIONS:  | None known             |

## **SECTION 15: REGULATORY INFORMATION**

DSL: All ingredients are on, or exempt from, the list.  
WHMIS CLASS: D2B  
TSCA: All ingredients are on, or exempt from, the list.

## **SECTION 16: OTHER INFORMATION**

REVISION DATE: May 22, 2018

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