

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)



## SECTION I

|                                                                                                                   |                                                                           |                                            |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------|
| MANUFACTURER'S NAME<br>Griqualand Exploration and Finance Corp.                                                   |                                                                           | EMERGENCY TELEPHONE NO.<br>(27-11) 39-5458 |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br>P. O. Box 69, Kuruman, Cape Province, Rep. of South Africa |                                                                           |                                            |
| CHEMICAL NAME AND SYNONYMS<br>Crocidolite Asbestos                                                                |                                                                           | TRADE NAME AND SYNONYMS<br>Asbestos        |
| CHEMICAL FAMILY<br>Fibrous Mineral Silicate                                                                       | FORMULA<br>$\text{Na}_2\text{Fe}_5(\text{OH})\text{Si}_4\text{O}_{11})_2$ |                                            |

## SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS                     | % | TLV (Units) | ALLOYS AND METALLIC COATINGS           | % | TLV (Units) |
|-------------------------------------------------------|---|-------------|----------------------------------------|---|-------------|
| PIGMENTS                                              |   | N/A         | BASE METAL                             |   | N/A         |
| CATALYST                                              |   | N/A         | ALLOYS                                 |   | N/A         |
| VEHICLE                                               |   | N/A         | METALLIC COATINGS                      |   | N/A         |
| SOLVENTS                                              |   | N/A         | FILLER METAL PLUS COATING OR CORE FLUX |   | N/A         |
| ADDITIVES                                             |   | N/A         | OTHERS                                 |   | N/A         |
| OTHERS                                                |   |             |                                        |   |             |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES |   |             |                                        | % | TLV (Units) |
| Crocidolite Asbestos Fiber Approx. 100 %              |   |             |                                        |   | *           |
| (*For TLV - See Section V)                            |   |             |                                        |   |             |
|                                                       |   |             |                                        |   |             |
|                                                       |   |             |                                        |   |             |

## SECTION III - PHYSICAL DATA

|                                                          |      |                                       |         |
|----------------------------------------------------------|------|---------------------------------------|---------|
| BOILING POINT (°F.)                                      | N/A  | SPECIFIC GRAVITY (H <sub>2</sub> O=1) | 3.2-3.3 |
| VAPOR PRESSURE (mm Hg.)                                  | N/A  | PERCENT, VOLATILE BY VOLUME (%)       | N/A     |
| VAPOR DENSITY (AIR=1)                                    | N/A  | EVAPORATION RATE (_____ =1)           | N/A     |
| SOLUBILITY IN WATER                                      | None |                                       |         |
| APPEARANCE AND ODOR Blue fibrous dry material - no odor. |      |                                       |         |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

|                                                                                |     |                  |     |     |     |
|--------------------------------------------------------------------------------|-----|------------------|-----|-----|-----|
| FLASH POINT (Method used)                                                      | N/A | FLAMMABLE LIMITS | N/A | Lel | Uel |
| EXTINGUISHING MEDIA<br>Material is non-flammable. No fire or explosion hazard. |     |                  |     |     |     |
| SPECIAL FIRE FIGHTING PROCEDURES<br>See Above.                                 |     |                  |     |     |     |
| UNUSUAL FIRE AND EXPLOSION HAZARDS<br>See Above.                               |     |                  |     |     |     |

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE OSHA Exposure Limits Effective 7/1/76. The 8 hr. time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air. Ceiling Concentrations. No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air. (Refer to OSHA Stand. for Exposure to Asbestos Dust, Fed. Register, Vol. 37, No. 110 June 7, 1972, Para. (h)(2)).

Avoid breathing excessive dust when handling, dumping and mixing. See Caution Label on bag. Breathing asbestos dust may cause serious bodily harm.

### SECTION VI - REACTIVITY DATA

|                                          |                |   |                     |
|------------------------------------------|----------------|---|---------------------|
| STABILITY                                | UNSTABLE       |   | CONDITIONS TO AVOID |
|                                          | STABLE         | X |                     |
| INCOMPATIBILITY (Materials to avoid) N/A |                |   |                     |
| HAZARDOUS DECOMPOSITION PRODUCTS None    |                |   |                     |
| HAZARDOUS POLYMERIZATION                 | MAY OCCUR      |   | CONDITIONS TO AVOID |
|                                          | WILL NOT OCCUR | X |                     |

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Vacuum spillage. Repair broken bags. If sweeping is necessary, wet down spillage.

Use approved respiratory equipment when required.

WASTE DISPOSAL METHOD

Disposal of waste in accordance with OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972, paragraph (h)(2).

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Use respirators as recommended by the OSHA Standard for Exposure to Asbestos Dust, Federal Register, Vol. 37, No. 110 - 6/7/72 Para. (d).

|             |                                                                                                                                            |         |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------|
| VENTILATION | LOCAL EXHAUST                                                                                                                              | SPECIAL |
|             | MECHANICAL (General) Control with mechanical dust collection equipment to within TLV. (See Amer. Nat'l Std. Institute Booklet, Z9.2-1971). |         |

PROTECTIVE GLOVES EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT Use special clothing as required by OSHA Standard for Exposure to Asbestos Dust, Fed. Register, Vol. 37, No. 110 - 6/7/72, paragraph (d).

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Maintain good housekeeping practices. Vacuum clean waste and place in closed containers.

OTHER PRECAUTIONS

SEE CAUTION LABEL ON BAG.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, GRIQUALAND EXPLORATION AND FINANCE CORP. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Form OSHA-20  
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