

# Concrete Pipeline Powder (RXSOL-67-6713-200)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

## 1. Product and Company Identification

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|              |                          |
|--------------|--------------------------|
| Product Name | Concrete Pipeline Powder |
| Part Number  | RXSOL-67-6713-200        |

Company Details:....

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

|         |                                                          |
|---------|----------------------------------------------------------|
| Phone   | +91 22 20871200 - 1400                                   |
| Fax     | +91 22 27612100 ::::AOH :0091 9821214367                 |
| Email   | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |
| Website | www.rxmraine.com                                         |

## 2. Composition / Information on ingredients

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Concrete structural units are not considered hazardous as shipped. Dust generated from crushing,

Product Name: Concrete Structural Units

cutting, grinding or drilling hardened concrete may contain amounts of crystalline silica considered hazardous under the OSHA and MSHA Hazard Communication Standards.

Concrete is a mixture is gravel or rock, sand, Portland cement and water. It may also contain fly ahs, slag, silica fume, fibers (organic) and color pigment.

| HAZARDOUS COMPONENTS | Percent ( By Weight) | CAS Number | OSHA PEL-TWA (mg/m3)                         | ACGIH TLV-- TWA (mg/m3) | MSHA PEL-TWA (mg/m3) |
|----------------------|----------------------|------------|----------------------------------------------|-------------------------|----------------------|
| Crystalline Silica   | 1%                   | 14808-60-7 | (10 )/(%SiO2 + 2)(R)<br>(30 )/(%SiO2 + 2)(T) | .025 (R)                | 10 )/(%SiO2 + 2)(R)  |
| Portland Cement      | 5-10                 | 65997-15-1 | (5) (R) ; (15) (T)                           | 1 (R)                   | (10)                 |
| Calcium Hydroxide    | 15-25                | 1305-62-0  | (5) (R) ; (15) (T)                           | 5 (T)                   | (5)                  |

Notes: 1. Concrete contains No Asbestos.

2. (T)= Total Particulate

3. (R)= Respirable Particulate

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 3. Hazards Identification

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HAZARD STATEMENT</b>     | Concrete structure itself is not hazardous.<br>Odorless, gray, solid or hollow concrete objects of various shapes.<br>Non-flammable product.<br>Exposure to dust may cause respiratory irritation.<br>Repeated or prolonged exposure to dust can damage lungs if inhaled.<br>Exposure to crystalline silica dust can cause Silicosis, a form of lung cancer.<br>Exposure to dust may cause irritation to skin or contact dermatitis.<br>Exposure to dust can cause irritation to eyes. |
| <b>PREVENTION STATEMENT</b> | Do not eat, drink or use tobacco when using this product.<br>Do not chip, grind or break product to create dust.<br>Do not breathe dust created.<br>Wear respiratory protection, protective gloves and eye/face protection if large amounts of dust are created.<br>Wash exposed skin thoroughly until dust is removed.<br>Flush eyes for 15 minutes. If irritation persists, seek medical attention.                                                                                  |
| <b>RESPONSE</b>             | If concerns or exposure occurs, seek medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>STORAGE</b>              | Prevent rolling, falling or tip over.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>DISPOSAL</b>             | Dispose of structure or parts thereof in accordance with state and local regulations.                                                                                                                                                                                                                                                                                                                                                                                                  |

## 4. First Aid Measures

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|                     |                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INHALATION</b>   | Move exposed individual to fresh air. Dust in throat and nasal passages should clear naturally by coughing, sneezing and nasal discharge. Obtain medical attention if symptoms persist or develop later. |
| <b>EYE CONTACT</b>  | After inhalation: fresh air. Call in physician.                                                                                                                                                          |
| <b>SKIN CONTACT</b> | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.                                                                                                  |
| <b>INGESTION</b>    | After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.                                                                                                       |

## 5. Fire-fighting Measures

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|                                           |                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>FLASH POINT</b><br><br>Not combustible | <b>FLAMMABLE LIMITS</b><br><br>Not applicable                                             |
| <b>EXTINGUISHING AGENTS</b>               | Not combustible. Use extinguishing agent appropriate for surrounding flammable materials. |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> | Spalling of hardened concrete may occur under conditions of intense heat.                 |

## 6. Accidental Release Measures

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|                                  |                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PERSONAL PRECAUTIONS</b>      | If large amounts of dust have been generated, eye protection and appropriate respiratory protection should be used to protect cleanup personnel against dust. |
| <b>SPILL AND LEAK PROCEDURES</b> | Do not dry sweep broken, dusty material. Use water spray to minimize dust or vacuum with HEPA filters                                                         |

## 7. Handling and Storage

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|                                                                              |                                                                                                                                                       |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                         | Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.                                                               |
| <b>Advice on protection against fire and explosion</b>                       | Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.                               |
| <b>Hygiene measures</b>                                                      | Change contaminated clothing. Preventive skin protection recommended.<br>Wash hands after working with substance.<br>For precautions see section 2.2. |
| <b>Specific end use(s) for safe storage, including any incompatibilities</b> | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                                                    |

## 8. Exposure controls and personal protection

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### Control parameters

|                                                     |                                                                 |
|-----------------------------------------------------|-----------------------------------------------------------------|
| <b>Components with workplace control parameters</b> | Contains no substances with occupational exposure limit values. |
|-----------------------------------------------------|-----------------------------------------------------------------|

### Exposure controls

|                                         |                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|

### Personal protective equipment

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection               | Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).                                                                                                                                                                                                                                                                                                                                           |
| Skin protection                   | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.                                                                                                                                                                                                               |
| Body Protection                   | Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                                                                                                                                                                                                |
| Respiratory protection            | Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.<br>Recommended Filter type: Filter type ABEK<br>The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. |
| Control of environmental exposure | Do not let product enter drains. Risk of explosion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 9. Physical and chemical properties

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### Information on basic physical and chemical properties

|                |           |
|----------------|-----------|
| Physical state | Liquid    |
| Color          | Colorless |

|                                              |                                                                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Odour                                        | Pleasant, aromatic                                                                                                                  |
| Melting point/freezing point                 | Melting point/range: -73 °C                                                                                                         |
| Initial boiling point and boiling range      | 88,6 °C at 1.013,25 hPa                                                                                                             |
| Flammability (solid, gas)                    | No data available                                                                                                                   |
| Upper/lower flammability or explosive limits | Upper explosion limit: 8 %(V)<br>Lower explosion limit: 1,8 %(V)                                                                    |
| Flash Point                                  | 5 °C - closed cup                                                                                                                   |
| Autoignition temperature                     | 460 °C at 1.013 hPa                                                                                                                 |
| Decomposition temperature                    | No data available                                                                                                                   |
| pH                                           | No data available                                                                                                                   |
| Viscosity                                    | Viscosity, kinematic: 0,6 mm <sup>2</sup> /s at 20 °C 0,475 mm <sup>2</sup> /s at 40 °C<br>Viscosity, dynamic: 0,602 mPa.s at 20 °C |
| Water solubility                             | No data available                                                                                                                   |
| Partition coefficient: n-octanol/water       | No data available                                                                                                                   |
| Vapor pressure                               | 92,27 hPa at 28,12 °C                                                                                                               |
| Density 0,872 g/cm <sup>3</sup> at 20 °C     | 0,872 g/cm <sup>3</sup> at 20 °C                                                                                                    |
| Relative density                             | No data available                                                                                                                   |
| Relative vapor density                       | No data available                                                                                                                   |
| Explosive properties                         | No data available                                                                                                                   |
| Oxidizing properties                         |                                                                                                                                     |
| <b>Other safety information</b>              | No data available                                                                                                                   |
| Relative vapor density                       | 3,53 - (Air = 1.0)                                                                                                                  |

## 10. Stability and reactivity

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|                                         |                                  |
|-----------------------------------------|----------------------------------|
| <b>STABILITY</b>                        | Stable.                          |
| <b>INCOMPATIBILITY</b>                  | Strong acids may etch concrete.  |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b> | None.                            |
| <b>HAZARDOUS POLYMERIZATION</b>         | Does not polymerize.             |
| <b>CONDITIONS TO AVOID</b>              | Avoid contact with strong acids. |

## 11. Toxicological information

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACUTE TOXICITY DATA</b> | <p>Standard animal toxicity data (e.g. LD50, LC50) are not available for quartz. Epidemiologic studies of workers indicate an increased risk of lung cancer from chronic exposure to respirable crystalline silica; this effect was more pronounced in those with silicosis. However, many of the studies did not account for effects of smoking or other confounding exposures.</p> <p>Epidemiologic studies have linked crystalline silica exposure with autoimmune diseases and kidney disorders. Individuals with silicosis show a higher incidence of scleroderma, a thickening of the skin. Current data have not shown a definite causal effect between these effects and exposure to respirable crystalline silica.</p> <p>In laboratory animal tests, dust containing newly broken particles of respirable silica particles caused greater lung injury than equal exposures to particles aged for sixty days or more.</p> |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 12. Ecological information

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|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>ECOLOGICAL DATA</b> | Generally considered chemically inert in the environment. |
|------------------------|-----------------------------------------------------------|

## 13. Disposal considerations

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### WASTE DISPOSAL

Dispose of waste product and unused product in compliance with federal, state and local requirements. Used material which has become contaminated, may have significantly different characteristics based on the contaminant and should be evaluated accordingly.

## 14. Transport information

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|                         |       |
|-------------------------|-------|
| <b>DOT HAZARD CLASS</b> | None. |
| <b>DOT PLACARD</b>      | None. |

## 15. Regulatory information

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### US FEDERAL REGULATIONS

|                                 |                                                                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| OSHA/ MSHA HAZARD COMMUNICATION | This product is considered by OSHA/ MSHA to a hazardous chemical and should be included in the employer's hazard communication program. |
| SARA 313                        | Not applicable.                                                                                                                         |
| CERCLA 103                      | Not applicable.                                                                                                                         |
| RCRA HAZARDOUS WASTE            | Waste is not hazardous according to 40 CFR 261.                                                                                         |
| California Proposition 65       | Crystalline silica (airborne particles of respirable size) is a substance known y the State of California to cause cancer.              |

|                                       |                        |
|---------------------------------------|------------------------|
| STATE REGULATIONS                     |                        |
| COMPONENT                             | STATE REGULATORY LISTS |
| Crystalline Silica, quartz 14808-60-7 | CA, FL, MA, MN, NJ, PA |

16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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