|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Material Safety Data Sheet** | | | |  | Portland Cement - Dry Powder Blend | | | | |  |  |  |
|  |  | Export 20 ppg NeoSuperSlurry E0105-300-020 | | | | | |  |  |
|  |  | **QUICK IDENTIFIER** (See Section 1) | | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  |  | | |  | | | | | | |  |  |  |
|  | **SECTION 1- IDENTIFICATION OF PREPARATION AND COMPANY** | | | | | | | | | |  |  |  |
|  |  |  | |  | | | | |  | |  |  |  |
|  | **Product:** | Export - 20 ppg NeoSuperSlurry System, P/N E0105-300-020 | | | | | | |  | |  |  |  |
|  |  |  | |  | | | | | | | |  |  |
|  | **Application:** | This kit is mixed with potable water to yield a 5 gallon batch of 20 ppg cement slurry for dump bailing | | | | | | | | | |  |  |
|  |  |  |  |  |  |  | | |  | |  |  |  |
|  | **Manufacturer’s** | NeoProducts, LLC |  |  |  |  | | |  | |  |  |  |
|  | **name:** |  |  |  |  |  | | |  | |  |  |  |
|  |  |  |  |  | | | | |  | | |  |  |
|  | **Address:** | 1201 Dealers Ave. |  | **Emergency Telephone #:** | | | |  | 504-731-1011 | | |  |  |
|  |  |  |  |  | |  | |  |  | | |  |  |
|  | **City, State, Zip:** | Harahan, LA 70123 |  | **e-mail:** | |  | |  | info@NeoProducts.net | | |  |  |
|  |  |  |  |  |  | | |  | | | |  |  |
|  | **Signature of** |  |  |  | **After hours calls will be answered by answering service.** | | | | | | |  |  |
|  | **person** | **Dr. JV Carisella** |  |  |  |  | | |  | |  |  |  |
|  | **responsible for** |  |  |  |  |  |  |  |  | |  |  |  |
|  | **preparation** |  |  | **Date Prepared:** | | |  | | January 2012 | |  |  |  |
|  | **(Optional):** |  |  |  | |  |  |  |
|  |  |  |  |  |  |  | |  | |  |  |  |
|  |  |  | |  | | |  | | | |  |  |  |
|  | **SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS** | | | | | | | | | |  |  |  |
|  |  |  |  |  |  |  | | |  | |  |  |  |
|  |  |  |  |  |  | **Time Weighted** | | | **Time Weighted** |  |  |  |  |
|  | **Component(s)** | | **% OPT.** | | | **Average** |  |  |  |  |
|  | **Average** | | |  |  |  |  |
|  | **[chemical and common name(s)]** | |  |  |  | **(respirable** |  | **CAS No.** |  |  |
|  |  |  |  | **(inhalable dust)** | | |  |  |  |
|  |  |  |  |  |  | **dust)** |  |  |  |  |
|  |  |  |  |  |  |  | | |  |  |  |  |
|  | Portland Cement - DTI #2104 | | 41.0 - 46.0 wgt % | | | 10.0 mg/m3 | | | 4 mg/m3 |  | 65997-15-1 |  |  |
|  |  | | |  |  |  |  |  |
|  |  |  |  |  | | |  |  |  |  |  |
|  |  | |  | | |  | | |  |  |  |  |  |
|  | Iron Oxide – DTI #2109 | | 30.0 - 35.0 wgt % | | | N/A | | | N/A |  | 1309-37-1 |  |  |
|  |  | |  | | |  | | |  |  |  |  |  |
|  | Silica Sand – DTI #2162 | | 15.0 - 20.0 wgt % | | | 0.3mg/m3 | | | N/A |  | 14808-60-7 |  |  |
|  |  | |  | | |  | | |  |  |  |  |  |
|  | Magnesium Oxide – DTI #2151 | | 0 - 6.0 wgt % | | | N/A | | | N/A |  |  |  |  |
|  |  | |  | | |  | | |  |  |  |  |  |
|  | Cement Slurry Retarder - DTI #2117 | | 1.0 - 4.0 wgt % | | | N/A | | | N/A |  |  |  |  |
|  |  |  |  |  |  |  | | |  |  |  |  |
|  | Suspension Agent – DTI #2099 | | 0.3 - 3.0 wgt % | | | N/A | | | N/A |  |  |  |  |
|  |  | |  | | |  | | |  |  |  |  |  |
|  | Friction Reducer – DTI #4244 | | 0.3 - 3.0 wgt % | | | N/A | | | N/A |  |  |  |  |
|  |  |  |  |  |  |  | | |  |  |  |  |  |
|  |  |  |  |  |  |  | | |  | |  |  |  |
|  | **Symbol(s):** |  |  |  |  | **Xi, Xn** | | |  |  |  |  |  |
|  | **Risk Phrases:** |  |  |  |  | **R36, R37, R38, R40** | | | | |  |  |  |
|  | **Safety Phrases:** |  |  |  |  | **S22, S25, S36/37/39, S38** | | | | |  |  |  |

**SECTION 3- HAZARD IDENTIFICATION**

|  |  |
| --- | --- |
| **Fire:** | This preparation is not flammable. |
|  |  |
| **Health:** | Potentially hazardous during normal handling and use as instructed. |
|  |  |
| **Environment:** | No known hazards. |
|  |  |
| **Other Hazards:** | CAUTION! – ACUTE HEALTH HAZZARD |
|  | This dry powder blend contains crystalline silica and quartz. |
|  | May cause eye and respiratory irritation. |
|  | DANGER! – CHRONIC HEALTH HAZZARD |
|  | This dry powder blend contains crystalline silica and quartz. |
|  | Breathing crystalline silica can cause lung disease including silicosis and lung cancer. Crystalline silica |
|  | has also been associated with scleroderma and kidney disease. |
|  | This product contains quartz, cristobalite, and/or tridymite, which may become airborne without a visible |
|  | cloud. Use only with adequate ventilation to keep exposures below recommended exposure limits. Wear a |
|  | NIOSH certified, European Standard EN 149 or equivalent respirator when using this product. Review the |
|  | Material Safety Data Sheet (MSDS) for this product, which has been provided to your employer. |
|  |  |

**SECTION 4- FIRST AID MEASURES**

|  |  |  |  |
| --- | --- | --- | --- |
| **Inhalation:** | This dry powder blend contains crystalline silica and quartz. | | |
|  | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing | | |
|  | becomes difficult. | |  |
| **Ingestion:** | First aid procedures are not required. | | |
|  |  | |  |
| **Skin:** | Wash with soap and water. | |  |
|  |  | | |
| **Eyes:** | Flush with plenty of water for at least 15 minutes. | | |
|  |  | | |
| **SECTION 5- FIRE FIGHTING MEASURES** | | | |
|  | | |  |
| **Extinguishing media:** | |  | Product does not burn. |
|  | |  |  |
| **Special fire fighting precautions:** | |  | None. Product does not burn. |
|  | |  |  |
| **Unusual fire and explosion hazards:** | |  | No fire hazards. |
|  |  |  |  |

**SECTION 6- ACCIDENTAL RELEASE MEASURES**

|  |  |
| --- | --- |
| **Personal precautions:** | Wear dust/mist respirator, work gloves and dust proof goggles. |
|  |  |
| **Environmental:** | No environmental hazards reported. |
|  |  |
| **Spillage:** | Use protective equipment, avoid creating or inhaling dust, sweep up and attempt to reuse product |
|  | if not contaminated. Prevent entry into drains, sewers and watercourses. |
|  |  |

**SECTION 7- HANDLING AND STORAGE**

This product contains quartz, cristobalite, and/or tridymite, which may become airborne without a visible cloud. Avoid breathing dust. Use only with adequate ventilation to keep exposures below recommended exposure limits. Wear a NIOSH certified, European Standard EN 149 or equivalent respirator when using this product. Material is slippery when wet.

**SECTION 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION**

|  |  |
| --- | --- |
| **Engineering controls:** | Use in well ventilated area. |
|  |  |
| **Respiratory protection:** | Use approved dust/mist respirator. |
|  |  |
| **Hand protection:** | Use normal work gloves. |
|  |  |
| **Skin protection:** | Normal work coveralls. |
|  |  |
| **Eye protection:** | Use dust proof goggles. |
|  |  |

**SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Physical State:** | |  | **Color:** | |  | **Odor:** |  | **PH:** | **Reactivity in Water:** |
| Solid | |  | Gray | |  | Odorless |  | Not Determined | N/A |
|  | |  |  | |  |  |  |  |  |
| **Vapor Density** | |  | **Solubility in Water** | |  | **Vapor Pressure** |  | **Specific Gravity @** | **Flammable Limits in** |
| **(Air=1):** | |  | **(g/100ml):** | |  | **(mm HG):** |  | **20C (H2O=1):** | **Air% by Volume:** |
| Not Determined | |  | 0.5 | |  | Not Determined |  | 3.15 | Not Determined |
|  | |  |  | |  |  |  |  |  |
| **Flash Point:** | |  | **LEL Lower:** | |  | **LEL Upper:** |  | **Melting Point:** | **Boiling Point:** |
| Not Determined | |  | N/A | |  | N/A |  | N/A | Not Determined |
|  | | |  | | |  |  |  |  |
| **SECTION 10- STABILITY AND REACTIVITY** | | | | | | |  | |  |
|  | |  | | |  | |  | |  |
| **Stability Data:** |  | **Hazardous** | |  | **Conditions to avoid:** | | **Incompatibility** | | **Hazardous** |
|  |  | **Polymerization:** | |  |  | | **(Materials to avoid):** | | **Decomposition or** |
|  |  |  | |  |  | |  | | **Byproducts:** |
| Stable |  | Will not occur | |  | Avoid contact with water | | None known | | None known |
|  |  |  |  |  |  |  |  |  |  |

**SECTION 11- TOXICOLOGICAL INFORMATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Principle route of exposure:** |  | Eye or Skin contact, Inhalation. | | |  |  |  |  |  |  |  |  |  |  |
| **Inhalation:** |  | This dry powder blend contains crystalline silica and quartz. Inhaled crystalline silica in | | | | | | | | | | |  |  |
|  |  | the form of quartz or cristobalite from occupational sources is carcinogenic to humans | | | | | | | | | | |  |  |
|  |  | (IARC, Group 1). There is sufficient evidence in experimental animals for the | | | | | | | | | | |  |  |
|  |  | carcinogenicity of tridymite (IARC, Group 2A). | | | | |  |  |  |  |  |  |  |  |
|  |  | This dry powder blend contains crystalline silica and quartz. Breathing silica dust may | | | | | | | | | | |  |  |
|  |  | cause irritation of the nose, throat and respiratory passages. Breathing silica may cause | | | | | | | | | | |  |  |
|  |  | noticeable injury or illness even through permanent lung damage may be occurring. | | | | | | | | | | |  |  |
|  |  | Inhalation of dust may also have serious chronic health effects (See “Chronic Effects / | | | | | | | | | | |  |  |
|  |  | Carcinogenicity” subsection below). | | |  |  |  |  |  |  |  |  |  |  |
| **Skin Contact:** |  | Wet cement can dry skin and cause Alkali burns. | | | | | |  |  |  |  |  |  |  |
| **Eye Contact:** |  | Dust can irritate eyes. | |  |  |  |  |  |  |  |  |  |  |  |
| **Ingestion:** |  | No harmful affects known. | | |  |  |  |  |  |  |  |  |  |  |
| **Medical conditions aggravated by exposure:** | | | Dermatitis | |  |  |  |  |  |  |  |  |  |  |
| **Chronic effects/ Carcinogenicity:** | |  | Silicosis: | Excessive i nhalation | | | of r espirable | | | crystalline s ilica dus t m | | | ay |  |
|  | cause a pr ogressive, di sabling and s ometimefatal- | | | | | | | | l ung di sease c alled | |  |  |
|  | |  |  |  |
|  | |  | silicosis. Symptoms include cough, shortened of breath, wheezing, non- | | | | | | | | | |  |  |
|  | |  | specific chest i llness, and r educed pulmonary f unction. T his disease | | | | | | | | | | is |  |
|  | |  | exacerbated b y s moking. I ndividuals w ill | | | | | | s ilicosis | | | ar e pr edisposed | t o |  |
|  | |  | develop tuberculosis. | |  |  |  |  |  |  |  |  |  |  |
|  | |  | Cancer Status: The International Agency for Research on Cancer (IARC) | | | | | | | | | |  |  |
|  | |  | has det ermined t hat | | crystalline silica i nhaled in | | | | | | the form of quar tz | | or |  |
|  | |  | crystallite from occupational sources can cause lung cancer in humans | | | | | | | | | |  |  |
|  | |  | (Group 1 – carcinogenic t o humans) and has | | | | | | | det ermined t hat t here i | | | s |  |
|  | |  | sufficient | ev idence i n ex perimental ani mals | | | | | | f or | the carcinogenicity | | of |  |
|  | |  | tridymite ( Group 2A – possible c arcinogen t o hum ans). R efer t oIARC | | | | | | | | | |  |  |
|  | |  | Monograph 68, Silica, Some Silicates and Organic Fibers (June 1997) in | | | | | | | | | |  |  |
|  | |  | conjunction w ith t he | | u se | of | t hese minerals. T he N ational T oxicology | | | | | |  |  |
|  | |  | Program classifies respirable crystalline silica as “Known to be a human | | | | | | | | | |  |  |
|  | |  | carcinogen”. R efer | | t o | theth | 9Report of | | C arcinogens ( 2000). T | | | |  |  |
|  | |  | American | C onference o f | | G overnmental | | Industrial | | | | H ygienists ( ACGIH) |  |  |
|  | |  | classifies | crystalline | silica,quartz, as a | | | suspected | | | | human carcinogen |  |  |
|  | |  | (A2). |  |  |  |  |  |  |  |  |  |  |  |
|  | |  | There is some evidence that breathing respirable crystalline silica or the | | | | | | | | | |  |  |
|  | |  | disease silicosis is associated with an i ncreased incidence of significant | | | | | | | | | |  |  |
|  | |  | endpoints such as acleroderma (an immune system disorder manifested | | | | | | | | | |  |  |
|  | |  | by scarring of the lungs, skin, and other internal organs) and | | | | | | | | | | kidney |  |
|  | |  | disease. |  |  |  |  |  |  |  |  |  |  |  |
| **Other Information** | |  | This dry powder blend contains quartz, crystalline, silica and quartz .For | | | | | | | | | |  |  |
|  | further | information | consult “Adverse Effects of Crystalline | | | | | | | |  |  |
|  | |  |  |  |
|  | |  | Exposure” published by the American Journal of Respiratory and Critical | | | | | | | | | |  |  |
|  | |  | Care Medicine, Volume 155, pages 71-768 (1997). | | | | | | | |  |  |  |  |
| **Toxicity Tests/ Carcinogenicity:** | |  | This dry powder blend contains quartz, crystalline, silica and quartz. | | | | | | | | | |  |  |
|  | |  | Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibers | | | | | | | | | |  |  |
|  | |  | (June 1997). | |  |  |  |  |  |  |  |  |  |  |

**SECTION 12- ECOLOGICAL INFORMATION**

|  |  |  |
| --- | --- | --- |
| **Mobility (water/air/soil):** |  | Not Determined |
|  |  |  |
| **Persistence/ Degradability:** |  | Not Applicable |
|  |  |  |
| **Bio-Accumulation:** |  | Not Determined |
|  |  |  |
| **Aquatic Toxicity:** |  | Not Determined |
|  | |  |
| **SECTION 13- DISPOSAL CONSIDERATIONS** | | |
|  |  | |
| **Disposal Method:** |  | Bury in a licensed landfill according to local regulations. |
|  | |  |
| **Contaminated Packaging:** | | Follow all applicable national or local regulations. |
|  | |  |
| **SECTION 14- TRANSPORT INFORMATION** | | |
|  |  | |
|  | **NO SPECIAL PRECAUTIONS NECESSARY** | |
|  | | |
| **SECTION 15- REGULATORY INFORMATION** | | |
|  |  | |
| **Hazardous Ingredients:** | None | |
|  |  | |
| **Symbol(s):** | **Xi , Xn** | |
|  |  | |
| **Risk Phrases:** |  |  |
| **R36** | Irritating to eyes. | |
| **R37** | Irritating to Respiratory System. | |
| **R38** | Irritating to Skin. | |
| **R49** | May cause cancer by inhalation. | |
|  |  | |
| **Safety Phrases:** |  |  |
| **S22** | Do not breathe dust. | |
| **S25** | Avoid contact with eyes. | |
| **S36/37/39** | Wear suitable protective respiratory equipment, clothing, gloves, and eye/face protection. | |
|  |  |  |

**SECTION 16- ADDITIONAL INFORMATION:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| This product is intended for the stated application only. Do not use this product for | | | | | | | | | | |  |
| any | other | Applications without | first | obtaining | | guidance | from | an | ap | proved | |
| NeoProducts representative, beforehand. | | | |  |  |  |  |  |  |  |  |
| If this product is for resale, make sure the purchaser receives a c opy of this safety | | | | | | | | | | |  |
| data sheet upon acceptance of this preparation. Make sure the employees of your | | | | | | | | | | |  |
| company are aware of the hazards, both chronic and acute, before allowing them to | | | | | | | | | | |  |
| use this product. | | |  |  |  |  |  |  |  |  |  |
| The | information contained in this Material | | | | Safety | Data Sheet is | | believed | | to | be |
| correct and reflects our best professional judgment. | | | | | | Because it is impossible | | | | | to |
| anticipate every condition under which this product will be used, this Material Safety | | | | | | | | | | |  |
| Data Sheet shall only be used as a guide. | | | | | It is imperative that each user of this | | | | | | |
| product determines its suitability for his particular application | | | | | | | and comply | | with all | | |
| environmental and workplace regulations. | | | |  |  |  |  |  |  |  |  |

**Disclaimer Statement:**

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