

Material Safety Data Sheet

18 ppg NeoDense Pack
P/N 0105-350-018

QUICK IDENTIFIER (See Section 1)

SECTION 1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the Substances or Preparation

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|--|--|---|-----------------------|
| Product: | 18 ppg NeoDense Pack, P/N 0105-350-018 | | |
| Synonyms: | None | | |
| Chemical Family: | Blend of inorganic chemical and polymers | | |
| Application: | Blend of weight additive, fluid loss additive, and cement dispersant used to increase the density of the cement slurry from 17 ppg to 18 ppg | | |
| Manufacturer's name: | NeoProducts, LLC | | |
| Address: | 1201 Dealers Ave. | Emergency Telephone #: | 504-731-1011 |
| City, State, Zip: | Harahan, LA 70123 | e-mail: | info@Neo-Products.net |
| Signature of person responsible for preparation (Optional): | JV Carisella | After hours calls will be answered by answering service. | |
| | | Date Prepared: | January 2012 |

SECTION 2- HAZARD IDENTIFICATION

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| Risk Phrases: | None |
| Hazard Overview: | <p>CAUTION! – ACUTE HEALTH HAZARD May cause eye and respiratory irritation.</p> <p>DANGER! – CHRONIC HEALTH HAZARD Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.</p> <p>This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. 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.</p> |

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

| Component(s) [chemical and common name(s)] | % OPT. | Time Weighted Average (inhalable dust) | Time Weighted Average (respirable dust) | CAS No. |
|---|---------------------|--|--|-----------|
| Iron Oxide, DTI #2109 | 94.0 – 99.0 wt % | N/A | N/A | 1309-37-1 |
| Suspension Agent, DTI #2099 | 0.4 – 3.0 wt % | N/A | N/A | |
| Friction Reducer, DTI #4244 | 0.2 – 3.0 wt % | N/A | N/A | 9084-06-4 |

More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

SECTION 4- FIRST AID MEASURES

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| Inhalation: | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. |
| Ingestion: | Under normal conditions, first aid procedures are not required. |
| Skin: | Wash with soap and water. Get medical attention if irritation persists. |
| Eyes: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. |
| Notes to physician | N/A |

SECTION 5- FIRE FIGHTING MEASURES

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| Suitable Extinguishing media: | All standard fire fighting media |
| Unsuitable Extinguishing media: | None known. |
| Special Exposure Hazards: | N/A |
| Special protective equipment for fire-fighters: | N/A |

SECTION 6- ACCIDENTAL RELEASE MEASURES

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| Personal precautionary measures: | Use appropriate protective equipment. Avoid creating and breathing dust. |
| Environmental precautionary measures: | None known. |
| Procedure for cleaning/absorption: | Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal. |

SECTION 7- HANDLING AND STORAGE

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| Handling precautions: | Avoid contact with eyes, skin, or clothing. This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet. |
| Storage Information: | Store in a cool, dry location. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. |

SECTION 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

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| Engineering controls: | Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits listed in Section 2. |
| Respiratory protection: | Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. |
| Hand protection: | Normal work gloves. |
| Skin protection: | Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing. |
| Eye protection: | Wear safety glasses or goggles to protect against exposure. |
| Other precautions: | None known. |

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: Solid | Color: Red brown | Odor: Odorless | PH : Not Determined | Molecular Weight (g/mole): Not Determined |
| Vapor Density (Air=1): Not Determined | Decomposition Temperature (C): Not Determined | Vapor Pressure @ 20 C (mm HG): Not Determined | Specific Gravity @ 20°C (H₂O=1): 5.02 | Percent volatiles : Not Determined |
| Flash Point/Range (C): Not Determined | Flash Point Method: Not Determined | Pour point/Range (C): Not Determined | Freezing Point/Range (C): Not Determined | Boiling Point/Range (C): Not Determined |
| Density @ 20°C (kg/l): Not Determined | Bulk Density @ 20°C (kg/m³): Not Determined | Autoignition temperature (C): Not Determined | Flammable Limits in Air – Lower (g/m³): Not Determined | Flammable Limits in Air – Lower (%): Not determined |
| Flammable Limits in Air – Upper (g/m³): Not Determined | Flammable Limits in Air – Upper (%): Not Determined | Evaporation Rate (Butyl Acetate=1): Not Determined | Solubility in Water (g/100ml): Insoluble | Solubility in Solvents (g/100ml): Not Determined |
| VOCs (g/l): Not Determined | Viscosity, Dynamic @ 20 C (centipoise): Not Determined | Viscosity, Kinematic @ 20 C (centistrokes): Not Determined | Partition Coefficient/n-Octanol/Water: Not Determined | |

SECTION 10- STABILITY AND REACTIVITY

| Stability Data: | Hazardous Polymerization: | Conditions to avoid: | Incompatibility (Materials to avoid): | Hazardous Decomposition or Byproducts: | Additional Guidelines: |
|-----------------|---------------------------|----------------------|---------------------------------------|---|------------------------|
| Stable | Will not occur | None anticipated. | Hydrofluoric acid. | Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C) | N/A |

SECTION 11- TOXICOLOGICAL INFORMATION

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| Principle route of exposure: | Eye or skin contact, inhalation. |
| Inhalation: | 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). Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below). |
| Skin Contact: | None known. |

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| Eye Contact: | May cause mechanical irritation to eye. |
| Ingestion: | None known. |
| Medical conditions aggravated by exposure: | Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust. |
| Chronic effects/ Carcinogenicity: | <p>Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometime-fatal lung disease called silicosis. Symptoms include cough, shortened of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.</p> <p>Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or crystallite from occupational sources can cause lung cancer in humans (Group 1 – carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A – possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibers (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as “Known to be a human carcinogen”. Refer to the 9th Report of Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).</p> <p>There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.</p> |
| Other Information | For further information consult “Adverse Effects of Crystalline Silica Exposure” published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997). |
| Toxicity Tests: | |
| Oral Toxicity: | Not Determined |
| Dermal Toxicity: | Not Determined |
| Inhalation Toxicity: | Not Determined |
| Primary Irritation Effect: | Not Determined |
| Carcinogenicity: | Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). |
| Genotoxicity: | Not Determined |
| Reproductive/Developmental Toxicity: | Not Determined |

SECTION 12- ECOLOGICAL INFORMATION

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| Mobility (water/air/soil): | Not Determined |
| Persistence/ Degradability: | N/A |

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| Bio-Accumulation: | Not Determined |
| Ecotoxicological Information: | |
| Acute Fish Toxicity: | Not Determined |
| Acute Crustaceans Toxicity: | TLM96: > 1000 ppm (Crangon crangon) |
| Acute Algae Toxicity: | Not Determined |
| Chemical Fate Information: | Not Determined |
| Other Information: | N/A |

SECTION 13- DISPOSAL CONSIDERATIONS

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| Disposal Method: | Bury in a licensed landfill according to federal, state, and local regulations. |
| Contaminated Packaging: | Follow all applicable national or local regulations. |

SECTION 14- TRANSPORT INFORMATION

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| Land Transportation: ADR – | Not restricted |
| Air Transportation: ICAO/IATA – | Not restricted |
| Sea Transportation: IMDG – | Not restricted |
| Other Shipping Information: Labels: | None |

SECTION 15- REGULATORY INFORMATION

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| EC Supply labeling Requirements: | This product is not subject to the labeling requirements of EC Directives 67/548/EEC and 88/379/EEC as amended. |
| Classification: | Not classified. |
| Risk Phrases: | None. |

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| Safety Phrases: | None |
| EINECS inventory | This product, and all its components, complies with EINECS |
| Germany, Water Endangering Classes (WGK) | WGK 0: Generally not water endangering. |

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 approved NeoProducts representative, beforehand.

If this product is for resale, make sure the purchaser receives a copy 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:

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.