



## **Product Stewardship Summary Natural Fibers and Plant Materials**

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information is available through the applicable Safety Data Sheet (SDS) which should be consulted before use of any chemical. This product stewardship summary does not supplant or replace required regulatory and/or legal communication documents.

### **Chemical Identity**

The Natural Fibers and Plant Materials Group are comprised of solids and currently include the following four products:

- Dynared™ (Seepage Control Fiber)
- Dyna-Seal™ OBM Fiber
- Sure-Seal™ LPM
- Torque-Seal™ Additive
- Well-Seal™ LCM

### **Category Justification**

Products in the Natural Fibers and Plant Materials group are insoluble natural plant fibers and/or nut shells. In general, these products exhibit similar health and environmental hazards.

### **Product Uses**

These products are commercially available to oil and gas service industry customers and are generally used to reduce loss of drilling fluid or cement slurry to the formation by physically plugging cracks, fractures, and permeable zones within the wellbore. The products are optimized for use in combating the different types of loss that may be encountered.

### **Physical/Chemical Properties**

All five products are various shades of brown solids with a mild, earthy odor and are classified as combustible dusts. Several of these products are available in fine, medium and coarse grades. Therefore care should be taken to avoid dust generation as they may form combustible dust concentrations in air. The products are considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Avoid contact with strong oxidizing agents.

### **Health Information**

Overall, the products in the Natural Fibers and Plant Materials Group are composed of naturally occurring materials and are not expected to be harmful via the oral, inhalation and dermal routes. These products are not expected to be skin or eye irritants. However, direct contact with dust or powder in the eye may cause mechanical abrasion. If accidentally ingested, these products are not anticipated to cause an aspiration hazard. Currently there is no available data on these products regarding carcinogenic, reproductive, teratogenic or developmental toxicity health effects.

### **Environmental Information**

The environment hazard potential of the Natural Fibers and Plant Materials Group is expected to be low (i.e., they are not expected to cause significant harm to aquatic life). Most of the product components are on the Pose Little or No Risk to the Environment List (PLONOR). These products have a high potential to biodegrade if released to the environment and not expected to bioaccumulate. However, care should still be taken to avoid releases to sewage, drainage systems, and water bodies. Spillage should be quickly collected and properly disposed.

### **Exposure Potential**

The most likely routes of exposure to Natural Fibers and Plant Materials are skin and eye contact, and potentially by inhalation because of the formation of dust. The best way to prevent exposure is to work in well-ventilated areas, wear appropriate personal protective equipment (PPE), and follow good personal hygiene practices.

#### *Workplace Use:*

The potentially exposed populations include: (1) workers who manufacture these products; (2) quality assurance workers who sample and analyze the products to ensure they meet specifications; (3) workers involved in distribution and storage of these products; and (4) industrial consumers in occupational settings that use these products in intended applications. The probability of exposure to these workers is expected to be low because these products are manufactured and tested in controlled environments and are stored and transported in tightly sealed containers. These products are sold to industrial customers that represent themselves as being familiar with their intended applications, safe handling, storage and disposal requirements. Manufacturing, quality assurance and transportation workers should adhere to safe handling practices and wear appropriate personal protective equipment (PPE), and have access to exposure prevention measures (e.g., engineering controls). Customers should also use appropriate PPE during handling and have risk mitigation measures in place to address potential physical hazards or accidental releases.

#### *Consumer Use:*

Potential exposure or impact to the general public is not anticipated for these products, as they are sold by Chevron Phillips Chemical Company to sophisticated industry users and not to the general population.

*Potential Environmental Release:*

There may be some potential for significant exposure to the environment from accidental releases during transportation of bags via truck trailers, rail and ocean containers; however, the frequency of distribution incidents involving accidental release of these products has been low, and reported volumes spilled have been minimal. Chevron Phillips Chemical Company is committed to operating in an environmentally responsible manner and has adopted the American Chemistry Council's Responsible Care<sup>®</sup> program.

**Risk Management**

Chevron Phillips Chemical Company is committed to Product Stewardship and doing business responsibly. We endeavor to provide sufficient information for the safe use and handling of all our products. We make product information available to all of our customers, distributors, carriers, and users of these products which contain detail about the properties of each product. To that end, a Safety Data Sheet accompanies each shipment from our manufacturing plant.

Before using these products, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question. It is the ultimate responsibility of the user to ensure suitability for use and determine if this information is applicable to the user's specific application. Chevron Phillips Chemical Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or any product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or any product itself.

**Regulatory Information**

Regulations exist that govern the manufacture, sale, transportation, use and disposal of these products. These regulations may vary by city, state, country or geographic region. Additional relevant information may be found by consulting the applicable Safety Data Sheet.

**Sources of Additional Information**

Safety Data Sheets (SDS) at <http://www.cpchem.com>

**Conclusion**

Natural Fibers and Plant Materials may form combustible dust concentrations in air. Efforts should be taken to minimize exposure to these products by adhering to safe-handling procedures, designated applications and uses, appropriate personal-protective equipment practices, and appropriate labeling, storage, and transportation procedures and requirements. The relevant SDS and applicable regulatory guidelines and requirements, including but not limited to Occupational Health and Safety Administration (OSHA) guidelines, should be consulted prior to the use or handling of these products.

**Contact Information:**

<http://www.cpchem.com/>