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Product Stewardship Summary
AQUEOUS SOLUTIONS GROUP

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed in this summary. 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 Aqueous Solutions Group currently includes four products.

- Diacel® HTR 100C Liquid
- Diacel® ATF-S Antifoam
- Diacel® FL (Winterized) Cement Additive

Category Justification

The Aqueous Solutions Products all contain 50% or more water and are easily diluted with additional water. The high water concentration significantly affects the physical properties of the mixtures. Although they do have a variety of chemical characteristics, the general health and environmental hazards are similar with small differences in severity of effects.

Product Uses

These products are commercially available to oil or gas service industry customers and are typically used in down-hole drilling applications (i.e., drilling fluids and cementing).

Physical/Chemical Properties

The Aqueous Solutions Group is comprised of low volatility liquids which are non-combustible. These products are considered stable under normal ambient and anticipated storage and handling

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Before using these products, the user is 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 and its affiliates do 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.

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conditions of temperature and pressure; however, they can decompose at elevated temperatures. Avoid contact with heat, sparks, and oxidizing agents.

Health Information

Overall, the products in the Aqueous Solutions Group exhibit low acute and chronic toxicity effects via the oral, inhalation, and dermal routes, except for Diacel® FL (Winterized) Cement Additive. Diacel® FL (Winterized) Cement Additive contains ethylene glycol that may be harmful via the oral route and repeated exposure of laboratory animals have shown effects in the kidney. Most products in this group are not expected to cause eye and skin irritation except for Diacel® ATF-S Antifoam. These products are not likely to cause an aspiration or skin sensitization hazard. Currently available information suggests the components of the Aqueous Solutions Products are not expected to cause carcinogenic, reproductive, teratogenic or developmental toxicity health effects. Diacel® ATF-S Antifoam however contains vinyl acetate that has been shown to be carcinogenic in laboratory animal studies.

Environmental Information

The environmental hazard potential of the Aqueous Solutions Group is expected to be low (i.e., they are not expected to be harmful to aquatic life) except for Diacel® ATF-S Antifoam that may be toxic to aquatic organisms. Based on the individual components in these products, the bioaccumulative potential ranges from low to high. They have a low to moderate potential to biodegrade if released to the environment. Given their potential to be persistent and potential to cause significant harm to the aquatic environment, care should be taken to avoid releases of them to sewage, drainage systems and water bodies. Spillage should be quickly collected and properly disposed of to minimize harm to the environment.

Exposure Potential

The most likely routes of exposure to the Aqueous Solution Group are skin and eye contact, and inhalation exposures. 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:

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) commercial consumers in occupational settings that use these products in intended applications. The probability of exposure to workers is expected to be low because these products are manufactured in enclosed, controlled environments, and are transported in tightly sealed containers. These products are

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sold to industrial customers that are familiar with their intended applications, safe handling, storage, and disposal requirements. Manufacturing, quality assurance and transportation workers will likely adhere to safe handling practices and wear appropriate personal protective equipment (PPE), and have access to exposure prevention measures (e.g., engineering controls). Customers are also likely to use appropriate PPE during handling, and to 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 drums, pails, totes, truck trailers, or container ships; however, the frequency of distribution incidents involving accidental release of these products has been low, and reported volumes spilled have been minimal. Furthermore, pallet containers are stretched wrapped to minimize the potential for product loss. Small quantities are shipped for laboratory quality and performance testing, typically one (1) pound or less. Those performing the tests should understand the hazards and adhere to the safe handling practices as explained above. The current and anticipated use of these products in designated off-shore/on-shore rig applications is not expected to result in significant loss to the environment because containers are handled one-at-a time. Chevron Phillips Chemical Company is committed to operating in an environmentally responsible manner and participates in the American Chemistry Council's Responsible Care® program.

Risk Management

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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

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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 SDS.

Sources of Additional Information:

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

European Chemical Agency (ECHA) Dissemination portal with information on chemical substances registered under REACH

- http://echa.europa.eu/information-on-chemicals

Organization for Economic Cooperation and Development (OECD): eChemPortal web-based search tool

- https://www.echemportal.org/echemportal/

European Center for Ecotoxicology and Toxicology of Chemicals (ECETOC). 2011. JACC 55: Linear Polydimethylsiloxanes, CAS No. 63148-62-9 Available online at:

- http://www.ecetoc.org/index.php?mact=MCSoap,cntnt01,details,0&cntnt01by_category=3&cntnt01order_by=Reference%20Desc&cntnt01template=display_list_v2&cntnt01display_template=display_details_v2&cntnt01document_id=5338&cntnt01returnid=91

European Food Safety Authority (EFSA). 2010. Scientific Opinion on the Use of Calcium Lignosulphonate (40-65) as a Carrier for Vitamins and Carotenoids. EFSA Journal 2010; 8(3):1525 Available online at:

- http://www.efsa.europa.eu/en/efsajournal/doc/1525.pdf

Federal Register. 2005. Proposed Rule by the United States Environmental Protection Agency (US EPA: Lignosulfonates; Exemptions from the Requirement of a Tolerance. Available online at:

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NLM. 2020. Chemical Carcinogenesis Research Information System (CCRIS) Database. Sodium Lignosulfonate Available online at:

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Conclusion

The Aqueous Solutions Group are classified as hazardous chemicals. 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 labeling, storage, and transportation procedures and requirements. The relevant Safety Data Sheets 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

www.cpchem.com

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