

# NEOFLO Oilfield Chemicals Product Stewardship Summary

(CAS number - Various)

## What are NEOFLO Oilfield Chemicals

NEOFLO is the brand name of a series of oilfield chemical components manufactured by Shell Chemicals. There are currently four series of NEOFLO products, known as NEOFLO 1 through NEOFLO 4. They vary in their composition and intended function within the oilfield markets. NEOFLO 1 and 2 series products consist of straight chain alpha and internal olefins of various carbon chain lengths. NEOFLO 3 series and NEOFLO 4 series products are partly or completely paraffinic in composition with varying carbon chain length. They differ in their properties, and in the manufacturing methods and raw materials used.

## How are NEOFLO Oilfield Chemicals Used?

NEOFLO products are intended to be used as components of oilfield fluids such as drilling muds. For example, NEOFLO 1 series products are among a small group of chemicals approved for use in Gulf of Mexico offshore drilling operations. Other NEOFLO products may be used both onshore and offshore, depending on the needs of the specific application, and the local regulations of the region where they are being used.

## Health, Safety and Environmental Considerations

NEOFLO products are not classified for transport as flammable or combustible, and are typically not classified as environmental hazards under GHS criteria. They will float and can be ignited on surface water. Carbon monoxide may be evolved if incomplete combustion occurs.

NEOFLO products can be moderately irritating to the skin and eyes, and cause headaches, nausea, drowsiness and/or dizziness on prolonged inhalation of vapors or mists. A significant health hazard typically indicated is to avoid aspiration into the lungs, which is common for many hydrocarbons with similar physical properties.

NEOFLO products are not expected to be toxic to aquatic organisms due to their low water solubility. They are readily biodegradable and are not expected to persist in the environment. Based on the carbon length, they may bioaccumulate.

## Storing and Transporting NEOFLO Oilfield Chemicals

NEOFLO products are stored and transported in mild steel or stainless steel. NEOFLO products are transported by tank truck, rail car and vessel. Some NEOFLO products may be transported in flexible plastic tanks inside rigid shipping containers.

## Risk Characterization Summary

Risks associated with exposure to these products have been evaluated for the following “chain-of-commerce” activities: manufacture, storage, product transfer, transportation, and customers/markets. They are manufactured, stored and transported to customers in closed systems. Depending on the customer, applications may vary from use as an intermediate for the manufacture of other chemicals, as commercial products or as certain formulated consumer products. Proper equipment design and handling procedures maintain low risk from exposure where used as an intermediate. Exposures may be higher in commercial and consumer applications. To minimise risk, additional controls, such as special handling procedures and protective packaging are implemented.

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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 health and safety information. Additional information is available through the chemical’s applicable Safety Data Sheet, which should be consulted before use of the chemical. This product stewardship summary does not supplant or replace required regulatory and/or legal communication documents.



### Disclaimer

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### Shell Chemicals

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