Global Product Strategy

Product Stewardship Summary

Phosphoric Acid Esters

Chemical Identity and Synonyms
- Phosphoric acid esters
- The chemical identity of these chemicals is considered proprietary information.

Physical Chemical Properties
- Clear yellow liquids

Nalco Products
- Nalco EC9351A (This list only represents a product with a high sales volume that contain these types of materials).

Product Uses
- These phosphoric acid esters are as used as a high temperature corrosion inhibitors or as oil gelling agents.

Chemical Related Health Information
- Based on structurally similar chemicals, these phosphoric acid esters are expected to have a low toxicity if swallowed or applied to the skin.
  - These phosphoric acid esters are expected to be slightly irritating to the eyes and skin.
  - These phosphoric acid esters are not expected to damage genetic material (DNA).
  - These phosphoric acid esters are not listed by IARC, NTP or OSHA as carcinogens.
  - There is no evidence that this type of chemical harms the unborn child or impairs fertility.

Chemical Related Environmental Information
- These phosphoric acid esters have a low toxicity to fish and invertebrates.
  - These chemicals will degrade in the environment.
  - These phosphoric acid esters are not predicted to bioaccumulate.

Chemical Exposure Potential
- Engineering controls are in place at Nalco facilities to reduce exposures of these chemicals to employees, stakeholders, and the environment.
• These chemicals are not released to the air.
• The packaged products are warehoused and any spills in the warehouse that are not immediately contained, naturally drain to our process water waste treatment. The spilled material is then segregated to different tanks for disposal or treatment, depending on the severity of the spill. All treated wastewater is monitored and analyzed continually for compliance with state and local regulation.
• These chemicals are used in industrial applications and potential exposure is limited to those individuals working at the facility.
• Use of gloves and eye protection (safety glasses) is recommended when handling these chemicals.

Chemical Risk Mitigation

• Risk is measured as a function of hazard and exposure. These esters have a low hazard for humans and the environment.
• When handled properly, utilizing appropriate personal protection equipment (PPE), potential exposure to these chemicals is significantly reduced.
• Under normal conditions of anticipated use and when used with appropriate handling procedures and PPE, the overall potential risk of these phosphoric acid esters to human health and the environment is low.
• As with all products, care must be taken to prevent release of these chemicals to the environment. In the event of a chemical release or spill Nalco has procedures in place that will reduce the potential human and/or environmental exposure through containment and remediation efforts.

Legal Statements

This product stewardship summary provides only basic health and safety information for general public use. Product stewardship summaries are not to be used in lieu of any regulatory or legal documentation and are not to be substituted for any right-to-know notifications.