

Global Product Strategy

Product Stewardship Summary

Aluminum Hydroxychloride

Chemical Identity and Synonyms

- Aluminum hydroxychloride
- CAS #: 1327-41-9

Physical Chemical Properties

- Solid
- Soluble in water

Nalco Products

- Aluminex 5 (This list only represents some products with the high sales volumes that contain this specific material).

Product Uses

- Aluminum hydroxychloride is used as a clarifying agent for water, including drinking water.

Chemical Related Health Information

- Aluminum hydroxychloride has a low toxicity if ingested.
- Aluminum hydroxychloride is mildly to moderately irritating to the eyes and mildly irritating to the skin.
- Aluminum hydroxychloride is not expected to be a skin sensitizer.
- Aluminum hydroxychloride is not expected to harm the unborn child.
- Aluminum hydroxychloride is not expected to damage genetic material or to be carcinogenic.

Chemical Related Environmental Information

- Aluminum hydroxychloride has a low toxicity to fish or invertebrates.
- Aluminum hydroxychloride is composed of substances commonly found in nature.
- Aluminum hydroxychloride is not likely to bioaccumulate.

Chemical Exposure Potential

- Engineering controls are in place at Nalco facilities to reduce exposures of this material to employees, stakeholders, and the environment.
- The material is 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.
- Use of gloves and eye protection (safety glasses) is recommended when handling this chemical.
- Occupational exposure limits have not been established specifically for aluminum hydroxychloride, but occupational exposure limits for soluble aluminum salts are applicable.
 - OSHA PEL – Aluminum, soluble salt (as AL): TWA 2 mg/m³
 - ACGIH TLV – Aluminum, soluble salt (as AL): TWA 2 mg/m³
- Aluminum hydroxychloride can be used to clarify drinking water.

Chemical Risk Mitigation

- Risk is measured as a function of hazard and exposure. Aluminum hydroxychloride has a low hazard for humans and the environment.
- When handled properly, utilizing appropriate personal protection equipment (PPE), potential exposure to this material is significantly reduced.
- Under normal conditions of anticipated use and when used with appropriate handling procedures and PPE, the overall potential risk of this material to human health and the environment is low.
- As with all products, care must be taken to prevent its release 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.