



## 2-Chloropyridine (2-PCI)

### Product Stewardship Summary

June 2009

Chemical Name:	2-Chloropyridine
Synonyms:	o-Chloropyridine; alpha-chloropyridine
CAS Number:	109-09-1
CAS Name:	2-Chloropyridine
EC (EINECS) Number:	203-646-3

- *General Description.* 2-Chloropyridine is a colorless, oily liquid used as an intermediate in synthetic organic, pharmaceutical and agricultural chemical manufacture.
- *Manufacture.* During production, potential exposure to humans and the environment is tightly controlled and confined through strong industrial hygiene protocols and processes, engineering of the manufacturing equipment, and the use of personal protective equipment.
- *Applications.* 2-Chloropyridine is used as an intermediate chemical in the production of various pyrethrin-based biocides for use in cosmetics, personal care products and pharmaceutical products.
- *Benefits.* 2-Chloropyridine has major benefits as an intermediate chemical in the processing of pyrethrin-based biocides.
- *General Precautions.*

2-Chloropyridine is severely irritating to the eyes and produces moderate irritation to the skin. 2-Chloropyridine is considered moderately toxic from acute ingestion. It is well absorbed through the

skin and highly toxic from this route of contact. 2-Chloropyridine is moderately to highly toxic from acute inhalation exposure of 4 hours duration. Ingestion of this material may be harmful; however, skin contact or inhalation may be harmful or fatal. This chemical has the potential to damage the lungs, liver and kidneys.

2-Chloropyridine has shown the potential to induce damage to genetic material in bacterial and mammalian cell assays. Therefore, it is considered to be mutagenic. However, the industrial hygiene procedures are in place to ensure that the human risk of mutation is low.

From repeated exposure the primary effect of 2-chloropyridine is damage to the liver.

2-Chloropyridine does not impair reproductive performance, fertility, or fetal development.

The acute toxicity to fish, aquatic invertebrates and aquatic plants is low.

- *Likelihood of Exposure.* This product is not sold to the individual consumer. Its uses are in the industrial workplace where exposure to humans and the environment are controlled by engineering controls and personal protective equipment. The Arch internal occupational exposure level is 0.5 ppm based on a time-weighted average exposure for 8 hour exposure.
- *Risk Management.* Those handling 2-Chloropyridine should carefully read and follow all label directions.

For additional information, please visit our web site at [www.archchemicals.com](http://www.archchemicals.com) and click on "Contact Us".

This 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 on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. This summary does not supplant or replace required regulatory and/or legal communication documents.