



(±)-3-Chloro-1,2-propanediol

Product Stewardship Summary

Chemical Name:	(±)-3-Chloro-1,2-propanediol
Synonyms:	3-Chloropropanediol; 3-Monochloropropane-1,2-diol; alpha-Chlorohydrin; Chlorodeoxyglycerol; Glycerol alpha-monochlorohydrin; 3-Chloropropylene glycol; Glyceryl chloride; Glycerol chlorohydrin
CAS Number:	96-24-2
EC (EINECS) Number:	202-492-4
Revision number:	1-2022

- **Chemical identification and uses:** 3-Chloro-1,2-propanediol is chloro substituted glycerol. It appears as a colorless to pale yellow hygroscopic liquid which is denser than water with a sweetish taste. It is used as a rodent chemosterilant (restricted use pesticide in US), solvent, antifreeze agent for dynamite, and chemical intermediate for dyes and other organic chemicals. It is also found as a food contaminant in acid-hydrolyzed vegetable proteins and soy sauce.
- **Potential exposures:** The general population may be exposed to 3-chloro-1,2-dihydroxypropane via inhalation of ambient air and dermal contact with vapors and other products containing it. 3-Chloro-1,2-propanediol is a food contaminant leading to oral exposure for general population. Exposure to workers can occur in industrial/manufacturing facilities and/or laboratories involved in qualitative analysis. Workers and laboratory staff risk exposure primarily through inhalation and dermal contact. In case of accident by inhalation, remove the exposed person to fresh air, keep at rest, and consult a physician. After contact with skin, wash immediately with plenty of water and call a physician if symptoms persist. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce contact. See the Safety Data Sheet (SDS) for additional information.
- **Human Health hazards:** 3-Chloro-1,2-propanediol is classified for Carcinogenicity, Reproductive toxicity, kidney and testis toxicity per the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), and as such exposure should be minimized. This compound is toxic if swallowed and causes skin irritation and serious eye damage upon exposure. It can be fatal if inhaled and may damage fertility or the unborn child. It also causes damage to organs through prolonged or repeated exposure One should refer to the Safety Data Sheet (SDS) for additional information and any specific protective information.
- **Environmental Health hazards:** 3-Chloro-1,2-propanediol is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating(vPvB).
- It should be stored in tightly closed containers in a dry, cool and well-ventilated place, protected from atmospheric moisture and water.

- Please contact us at PMTPSCustomerCare@Honeywell.com for more information. Additional information may also be found at the following links:

[EPA – 3-Choloro-1,2-propanediol](#)

[Pubchem – 3-Chloro-1,2-propanediol](#)



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 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. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.