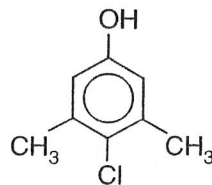


Chloroxylenol

INCI Name	CAS Number	EINECS Number	Canada
Chloroxylenol	88-04-0	201-793-8	DSL

Chemistry

Chloroxylenol is a chlorinated substituted phenol. Chemically, it is Para chloro meta xylenol or 4-Chloro-3,5-dimethylphenol. It is also frequently referred to as PCMX® (trademark of Clariant).



Regulations

The EU and Brazil allow a maximum concentration of 0.5% without restrictions. It is permitted in Japan (CLS 500138) at 0.2%.

Cosmetic Ingredient Review


J. of the American College of Toxicology 4 (5) 1985, 147-169. Final Report on the Safety Assessment of Chloroxylenol. Conclusion: On the basis of the information presented in this report, the CIR Expert Panel concludes that Chloroxylenol is safe as a cosmetic ingredient in the present practices of use.

Noncosmetic Approvals

PCMX is widely used as a disinfectant and topical antiseptic. It is allowed in adhesives for incidental food contact. It has EPA registration for metalworking, emulsions, printing inks, drilling muds and leather. It is monographed in the BP and the USP.

The FDA OTC Review Panel has determined there is insufficient data to assess the safety and efficacy of Chloroxylenol for "antimicrobial soaps." It is safe for topical antifungal use at 0.5 to 3.75% but not sufficient data of effectiveness for treatment of athlete's foot, tinea cruris and ringworm.

Producer and Trademark

Producer	Trade Name	Purity	Application
 Kraft Chemical Company Chemicals • Raw Materials • Metals		98.5%	Standard
		99.3%	USP

Note: This product used to be known as *Ottomest* from *Eastman Chemical Company*. The trade name and product were acquired by *Eastman Chemical Company* and discontinued under this designation.

Solubility

Water 0.025 g/ml, propylene glycol 31.1 g/ml, mineral oil 0.04 g/ml.
Solubility increases in water as it becomes more alkaline.

Activity

More active against mold than bacteria.

Inactivators

Chloroxylenol is inactivated by nonionics, alkaline pII and cationics.

Stability

Material is very stable. At high pH, it forms the alkaline salt but reverses to the compound as the pH is lowered.

Incorporation

Because of its limited solubility, incorporation in clear products is difficult.

Analysis

Can be analyzed in formulations by HPLC.

Concerns

Limited use due to solubility and odor.

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