

iDRUFF OCT

INCI Name (US): Piroctone Olamine

INCI Name (EU): Piroctone Olamine

CAS #: 68890-66-4/272-574-2

General Information/ Characteristics: iDruff Oct is an effective antidandruff active ingredient and preservative

Benefits / Application: The reason that iDruff OCT finds favors in the eyes of manufacturers and technicians is not only because of its good antidandruff action, solubility and safety, but also its special functions such as thickening preservation and elimination of body offensive odor.

iDruff OCT has an obvious action of increasing thickness of shampoo, when its concentration reaches 0.3 - 0.4% in base shampoo; the viscosity of shampoo is about 3000 m.pas. So the thickening agent may not be added, or added in a less amount when iDRUFF OCT is added to the shampoo. This not only simplifies the production process but also raises the product stability and reduces product cost.

iDruff OCT has a wide range of antibacterial and antifungal action; it has been used in soap, cream to eliminate body offensive smell, or to replace preservative.

iDruff OCT is a broad-spectrum microbicide/microbiostatic, may be used in formulating antidandruff shampoo, hair keep and hair care, soap, etc.

Formulations Advices: iDruff Oct (Piroctone Olamine) is listed in annex V/35 of the European Cosmetic Directive EC 1223/2009.

iDruff Oct is readily soluble in alcohol (10%), soluble in aqueous surfactant solution and slightly soluble in water (ca. 0.05%). The solubility of iDruff Oct depends on the pH, in aqueous formulations the solubility is greater in neutral to weakly alkaline ranges than in the acid range (formation of free acid). In the usual pH range (pH 5 – 8) in cosmetic products iDruff Oct shows an adequate solubility.

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Regulatory Status: The maximum concentration in ready for use preparation is restricted to 1.0% for leave and 0.5 % for other cosmetic products.

Antidandruff hair keep:	0.1 - 0.8% active ingredient
Antidandruff fixing agent:	0.05 - 0.2% active ingredient
Antidandruff hair emulsion	1 - 0.3% active ingredient
Antidandruff hair supporting:	0.05-0.1 % active ingredient
Smell-eliminating agent	0.2 - 0.5% active ingredient.
Smell-eliminating scented soap	0.2 - 0.5% active ingredient

Physic-Chemical Properties:	Appearance	Powder
	Color:	White or slightly yellow
	Odor:	Odorless
	pH (1% soln at 20°C)	8.5 - 10.0
	Melting Point	130 - 135°C
	Loss on drying	Not more than 0.3%

*These values indicate typical specification; they are not intended to be used as product specifications

Additives: Preservatives: 0.2 - 0.5% active ingredient

Shelf Life / Storage Conditions Shelf life: in unopened original container at 15⁰C under adequate storage conditions minimum two (2) years after production date.

Storage: Keep in tight closed container at 15 to 40⁰C, in cool, dry, ventilated and lightless place.

Packaging: 25 kg/ drum/ carton box

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