

**iSUN HMS**

**INCI Name (US):** Homosalate

**INCI Name (EU):** Homosalate

**CAS #:** 118-56-9 / 204-260-8

**General Information/ Characteristics:** iSun HMS is an organic compound used in some sunscreens. It is an ester formed from salicylic acid and 3,3,5-trimethylcyclohexanol, a derivative of cyclohexanol. Contained in 45% of U.S. sunscreens, it is used as a chemical UV filters. The salicylic acid portion of the molecule absorbs ultraviolet rays with a wavelength from 295 nm to 315 nm, protecting the skin from sun damage. The hydrophobic cyclohexanol portion provides greasiness that prevents it from dissolving in water.

**Benefits / Application:** iSun HMS is a widely used chemical in sunscreens and skin care products with SPF.

Application: Sunscreen, Skin Care Products with Sun Protection.

**Formulations Advices:** iSun HMS is approved worldwide; the maximum concentration of 10% w/w in cosmetic use preparations varies according to local legislation. It is listed in Annex VI of Regulations (EC) No. 1223/2009 (Max. 10%).

**Regulatory Status:** No specific regulation

<b>Physical-Chemical Properties:</b>	Aspect	Clear oily liquid
	Specific gravity (25°C)	1.049 – 1.053
	Refractive Index (20°C)	1.516 – 1.519
	Assay (GC)	90.0 – 110.0 %
	UV Specific extinction (E1%/1 cm, Methanol)	170 – 180 @ 305±2 nm

<b>Microbiological Data:</b>	Total Plate Count	Max. 100 ufc/g
	Mold & Yeasts	Max. 10 ufc/g

**Shelf Life / Storage Conditions** 18 months if stored at 25 °C in unopened original packaging. Avoid freezing. Protect from direct light. Reclosed immediately after use

**Packaging:** 1 Kg and 5 kg plastic drums.

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