

Permissible Percentages of UV Chemical Filters

Ingredient	TGA	FDA	EU
	%	%	%
Aminobenzoic Acid (PABA)	15	15	5
Avobenzene	5	5	5
Cinoxate	6	3	-
Dioxybenzone	3	3	-
Ensulizole (Phenylbenzimidazole sulfonic acid)	4	4	8
Homosalate	15	15	10
Meradimate (Menthyl Anthranilate)	5	5	-
Octinoxate (Octyl methoxycinnamate)	10	7.5	10
Octisalate (Octyl salicylate)	5	5	5
Octocrylene	10	10	10
Oxybenzone	10	6	10
Padimate O	8	8	8
Sulisobenzene	10	10	5
Titanium Dioxide (GRASE)	25	25	25
Trolamine Salicylate	12	12	-
Zinc Oxide (GRASE)	N/A	25	25

Please Note: The FDA have not classified any of these UV chemical filters, GRASE apart from Titanium Dioxide & Zinc Oxide because of insufficient data

Harmful Effects of Some UV Chemical Filters to Adults, Children and Babies

Chemical	Hormone Disruption	Reproductive & Developmental Toxicity	Systemic Absorption & Accumulation	Photo-contact Allergy and Dermatitis	Nervous System Effects
Octinoxate	✓ [1-4]	✓ [3]	✓ [5]		
Oxybenzone	✓ [1,2,6]	✓ [7]	✓ [5]	✓ [8]	
4-methyl benzylidene Camphor	✓ [1,6,7,9]	✓ [7,10]		✓ [11]	
Homosalate	✓		✓ [5]		
Octocrylene			✓ [5]	✓ [13]	
Avobenzone *					
Methylparabens	✓ [14,15]	✓ [16,17,18]			
Phenoxyethanol				✓ [19,20]	✓ [21]

*Avobenzone is unstable under sunlight and must be formulated with other chemical UV filters to stabilise it, and thus carries their risks.

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Chemical UV Filters Banned or Proposed to be banned:

[illegible]