



Eastern Petroleum Private Limited

An ISO 9001-2015 certified company



OMC, Octyl Salicylate, Homosalate, Avobenzone, Benzophenone 3, Benzophenone 4, Ethylhexyl Triazone, Octocrylene

Introduction:

UV Iters are used to manufacture personal care products to protect our skin from detrimental ultraviolet radiation. It has the ability to prevent skin defacement caused by exposure to UVA & UVB lights by absorbing or reecting UV Rays. UV Iters are used in cosmetics, sunscreens and moisturizers that work as a shield against sunburns, premature ageing and skin cancer. To ensure safety and eectiveness in consumer products, it is regulated in many countries.

Application:

- Facial Creams & Moisturizers: These products contain lower SPF ratings but still provide considerable protection from daily exposure to sunlight and photoaging caused by UVA rays.
- Sunscreens and Sunblocks: These products consist of UVA and UVB Iters which oer comprehensive protection against the full range of ultraviolet radiations.
- Foundations Beauty Balms / Color Correctors Creams and Lip Care Products: UV Iters are also added to cosmetic products like Beauty Balms and Color Correctors creams or foundations and extensively safeguard sensitive skin from damage.
- Hair Care Products: Consumption of UV Filters in the hair care segment like conditioners, shampoos and hair sprays have been growing steadily to prevent sun-related damages like fading colour, loss of shine in hair and deterioration in the quality of hair proteins.

Typical Characterisitcs:

- Absorption of UV Radiation: UV Iters acts as a shield by blocking UV radiation from entering into the skin either by reecting, absorbing or scattering the UV radiation. They provide a shield against UVA and UVB radiation which contributes to premature skin ageing and sunburns.
- Wide-Range protection: Our Avobenzone and Octocrylene have the ability to provide complete protection by blocking UVA & UVB radiation respectively.
- Photostability: This is the property that determines the stability of UV Filters when exposed to direct sunlight. Example: Avobenzone can deteriorate under direct sunrays unless it is stabilised by other ingredients such as Octocrylene.
- Safety and Compatibility: UV Filters should not cause any adverse eects for continuous skin exposure. There should not be any irritation or allergic reaction and they should have the tendency not to block the pores. Example: Benzophenone is considered to be safe for all skin types. Various UV Filters can be used in diverse formulations to impart all-around stability and skin-friendly performance.

Packing:

Material can be packed in 25 kg drums, 200 kg / 220 kg / 235 kg HDPE drums as per customer requirement.





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PRODUCTS AND ITS FEATURES

Sr. No.	Product Name	CAS Number	Features	Recommended usage for Cosmectis & OTC Formulations
1	Octylmethoxy Cinnamate (OMC)	5466-77-3	Octylmethoxy Cinnamate (OMC), commonly referred to as Octinoxate, eectively absorbs UVB rays within the range of 280-320 nm. This ingredient is generally stable when exposed to sunlight, though it may undergo degradation over time, particularly at elevated concen-trations. Its stability makes OMC a popular choice in sunscreen formulations, as it helps provide reliable protection against sun damage.	Between 2 - 10%
2	Octyl Salicylate	118-60-5	Octyl Salicylate is a derivative formed from salicylic acid and 2-ethylhexanol. This compound ecctively absorbs UVB rays (280–320 nm), thus helping to shield the skin from sunburn and various forms of UV-induced damage. Its inclusion in sunscreen formulations aids in providing a protective barrier against harmful radiation. By Itering out UVB light, it plays a crucial role in skincare products aimed at preventing sunrelated skin issues.	Between 5 - 10%
3	Homosalate	118-56-9	Homosalate mainly absorbs UVB radiation (280–320 nm), which is linked to sunburns and certain forms of skin cancer. It provides a protective barrier against harmful UVB rays, but it oers minimal defense against UVA radiation.	Not more than 10%
4	Avobenzone	0356-09-01	Avobenzone, a potent UVA lter, is susceptible to degradation when exposed to sunlight. To improve its stability it's often combined with other stabilizers like Octocrylene. This makes Avobenzone a preferred option in formulations thereby replacing inorganic sunscreens like zinc oxide and titanium dioxide.	Between 3 - 5%
5	Benzophenone 3	131-57-7	Benzophenone-3, also referred to as Oxybenzone, is an organic compound that oers protection against sun damage by absorbing UVB rays (280–320 nm) and a portion of UVA rays (320–400 nm). This helps prevent skin issues such as sunburn and DNA damage caused by excessive sun exposure.	Between 6 - 10%
6	Benzophenone 4	4065-45-6	Benzophenone-4 serves as a UV lter that safeguards the skin from both UVA and UVB radiation damage. This dual role enhances the eectiveness and longevity of products that contain this ingredient, making it a valuable component in sun protection products and other cosmetics.	Between 6 - 10%
7	Ethyl Hexyl Triazone	88122-99-0	Ethyl Hexyl Triazone is a synthetic organic compound used as a UV Iter in sunscreens and other cosmetic formulations. It primarily absorbs UVB radiation, making it eective for protecting the skin from sunburn and other harmful eects associated with UV exposure. One of its notable characteristics is its excellent photostability, which allows it to maintain its protective properties even when exposed to sunlight. This stability enhances the overall ecacy of sun-screen products.	Not more than 0.5%
8	Octocrylene	6197-30-4	Octocrylene is primarily responsible for absorbing UVB rays in the range of 280-320 nm, while also demonstrating some capability to absorb UVA radiation from 320-400 nm. This characteristic makes it a valuable component for achieving broad-spectrum sun protection. By incorporating Octocrylene into sunscreen formulations, users can benet from enhanced defence against both types of ultraviolet rays. Its dual absorption properties contribute to a more comprehensive shield against sun damage.	Between 2 - 10%





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UV Filters & it's Specifications

OMC Specifications Colourless to light yellow clear liquid. **Appearance** Specific Gravity D25/25 1.005 - 1.013**Refractive Index** 1.542 - 1.548 Acid value Max 1.0 mg KOH/gm Saponification value Min 189 mg KOH/gm Assay by GC 95.0 - 105% Min 98.0% **Purity by GC** a) Any individual impurity : Related Max 0.5% b) Total impurities : Max 2.0% substances by GC

Octyl Salicylate		
Test	Specifications	
Appearance	Clear Colorless pale yellow liquid	
Odor	Mild, characteristic odor	
Acid Value, mg KOH/gm	Not more than 1	
Purity by GC, %	Min. 99	
2-Ethyl hexanol content, ppm	Max. 100	
Specific Gravity at 25°C	1.011-1.016	
Refractive Index at 20°C	1.500-1.503	

Homosalate		
Test	Specifications	
Appearance	Colorless to pale yellow liquid	
Identification by GC (Assay)	The retention time of main peak of test sample should be match with that of standard, as obtained in the Assay	
Specific Gravity D25/25	1.049-1.053	
Refractive Index nD20	1.516-1.519	
Assay by GC	Min 90 –110%	
Purity by GC	Min 99.0 % (sum of isomers)	

Avobenzone		
Test	Specifications	
Appearance	White to pale yellow crystalline powder	
Identification by GC (Assay)	The retention time of main peak of test sample should be match with that of standard, as obtained in the Assay	
Loss on drying	Max 0.5 %	
Assay By GC	95.0 - 105.0 % (on dried basis)	
Related substances by GC	a) Any individual impurity :Max 3.0% b) Total impurities :Max 4.5%	

Benzopnenone 3	
Specifications	
Paly Yellow Powder	
Freely Soluble in Alcohol and Toluene Practically insoluble in water	
NLT 62℃	
Dry a Sample in vacuum at 40°C 2 hr—NMT 2.0%	
Not less than 97.0% and NMT 1 0.30% calculated on dried basis	

Benzopnenone 4		
Test	Specifications	
Appearance	Very Pale Yellow, FineFree Flowing powder, free of foreign impurities	
Absorptivity (Water)	46Min@286nm	
Solubility	Clear Solution (5gm in 100 ml water)	
Purity (ByHPLC Dry Base Tested)	99 % (Min)	
Moisture content	Less than 3%	

Eurlyi Hexyl Thazone		
Test	Specifications	
Appearance	White to light yellow powder	
Odors	Light Characteristic	
Melting Point (°C)	123 – 132 °C	
Moisture content by KF% w/w	Not more than 0.5%	
Colour (Gardner) (10gin/100 irl Acetone)	Max. 3.0	
Clromatographic purity by HPLC	NLT 98.0 %	

Octobry Terrio		
Test	Specifications	
Appearance	Yellow color viscous liquid	
Specific gravity at 25°C	Between 1.045 to 1.055	
Refractive index at 20°C	Between 1.561 to 1.571	
Chromatographic Purity a. Single Max impurity b. Total impurities	Not more than 0.5% Not more than 2.0%	
Specific Absorption (303nm, 1cm, 1% Methanol)	Between 340 & 370	
Assay	Between 95 to 105%	
Benzophenone Content	Less than 500 ppm	

Octocrylene

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