COMPANY PROFILE

MFCI is a chemical enterprise based on product technology research and development, composed of three production sites, one sales company, one R&D center, and one US branch. More than 90% of products are exported to over 60 countries around the world, including Europe, North America, Oceania, South America, and the Middle East.

MFCI, who has standardized GMP workshop, well-equipped R&D center for products and application lab with advanced instruments, as well as intact GMP management system, has been audited and approved by US FDA. Products supplied by MFCI has been widely used in both domestic and abroad markets. Now MFCI has become benchmark of sun filter industry for global cosmetics.

In MFCI, outstanding minds, GMP compliant quality assurance system, and regulations for cosmetic industry are integrated. MFCI team provide the following professional services to our clients:

1. Product R&D and process development
2. Product supply from kilograms to multi-tons
3. Custom synthesis and contract manufacture
4. DMF for regulatory compliance, technical support and related information exchange
5. End user documentation audits and on-site audits
6. Innovative formula support for personal care industry
7. Prompt response and efficient after-sales service
8. Strict confidentiality of customers’ commercial and technical information
<table>
<thead>
<tr>
<th>Product</th>
<th>INCI Name</th>
<th>CAS No.</th>
<th>Properties &amp; Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfsorb® 501</td>
<td>Benzophenone-1</td>
<td>131-58-6</td>
<td>• Mainly used for nail polishes&lt;br&gt;• Max concentration: 5%</td>
</tr>
<tr>
<td>Mfsorb® 502</td>
<td>Avobenzone</td>
<td>70356-09-1</td>
<td>• A highly effective UVA filter&lt;br&gt;• Combined with the effective UVB filters for broad-spectrum protection and high SPF&lt;br&gt;• Max concentration: 5% (US) 5% (EU, AUS) 10% (JP)</td>
</tr>
<tr>
<td>Mfsorb® 503</td>
<td>Ethylhexyl Salicylate</td>
<td>118-69-5</td>
<td>• A secondary UVB filter for high SPF formula&lt;br&gt;• Excellent solvent for solid organic UV filters&lt;br&gt;• Used for sun care, body care, facial care and color cosmetics&lt;br&gt;• Max concentration: 5% (EU, AUS) 10% (JP)</td>
</tr>
<tr>
<td>Mfsorb® 504</td>
<td>Homosalate</td>
<td>118-56-9</td>
<td>• Good formula compatibility&lt;br&gt;• Excellent solvent for solid organic UV filters&lt;br&gt;• A secondary UVB filter for high SPF formula&lt;br&gt;• Used for sun care, body care, facial care and color cosmetics&lt;br&gt;• Max concentration: 10% (EU, JP) 15% (US, AUS)</td>
</tr>
<tr>
<td>Mfsorb® 505</td>
<td>Ethylhexyl Methoxycinnamate</td>
<td>5456-77-3</td>
<td>• An effective UVB filter ideal for water-resistant sunscreen formulas&lt;br&gt;• Excellent solvent for solid organic UV filters&lt;br&gt;• Used for sun care, body care, facial care and color cosmetics&lt;br&gt;• Max concentration: 7.5% (US) 10% (EU, AUS) 15% (JP)</td>
</tr>
<tr>
<td>Mfsorb® 506</td>
<td>Padimate-o</td>
<td>21245-02-3</td>
<td>• A highly effective UVB filter&lt;br&gt;• Excellent compatibility with other UV filters&lt;br&gt;• Very photostable&lt;br&gt;• For sunscreens, body and facial care, color cosmetics&lt;br&gt;• Max concentration: 5% (EU, AUS) 10% (JP)</td>
</tr>
<tr>
<td>Product</td>
<td>INCI Name</td>
<td>CAS No.</td>
<td>Properties &amp; Applications</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------</td>
<td>----------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Mfsorb® 513 | Isoctrizol      | 154702-15-5 | • The new UV filter  
• Very photostable  
• Excellent oil solubility  
• A high-performance UVB filter with outstanding Specific Extinction of 1600  
• Synergy effect combine with other UV filters, simplifying the task of formulating high SPF  
• Max concentration: 10% (EU, MERCOSUR, CHINA, 5% (JP)) |
| Mfsorb® 514 | 4-methylbenzylidene camphor | 36861-47-9 | • A highly effective UVB filter  
• Stabilizes Avobenzone  
• Suitable for water-resistant sunscreen formulas  
• Max concentration: 4% |
| Mfsorb® 516 | Tetraphénylidène Dicapheor Sulfonic Acid | 90457-82-2 | • Broad-spectrum protection especially for UVA protection  
• Very photostable  
• Excellent water solubility  
• Improves UVA protection and skin feel of the product  
• Used for sunscreens and daily skin care products |
| Mfsorb® 518 | Isomyl P-methoxybenzyl | 71617-10-2 | • A highly effective UVB filter  
• Excellent solvent for solid organic UV filters  
• Suitable for waterproof sunscreen formulations  
• Max concentration: 10% |
| Mfsorb® 521 | Diodium Phenyl Dibenzimidazole Tetrasulphonate | 180898-37-7 | • A highly effective and photostable UVA II absorber  
• Good compatibility with other ingredients  
• Suitable for water-based transparent sunscreen products such as gels or clear sprays  
• Max concentration: 10% (EU, US, BR, KR) |
| Mfsorb® 522 | Polysilicone-15 | 207574-74-1 | • The first polymeric UV filter consisting of chromophores attached to a silicone backbone  
• The effective photostabilizer for Avobenzone  
• Excellent skin compatibility builds a uniform film for optimal sun protection  
• Synergy effect combine with other UV filters, enables to boost SPF  
• For sunscreens, day care, rinse-off and leave-on hair products  
• Max concentration: 10% (EU, US, ASEAN, JP) |

<table>
<thead>
<tr>
<th>Organic UV Filters</th>
<th>Product</th>
<th>INCI Name</th>
<th>CAS No.</th>
<th>Properties &amp; Applications</th>
</tr>
</thead>
</table>
| Mfsorb® 523       | Drometazine Triisoxane | 155633-54-8 | • A photostable UVA and UVB light filter  
• Enhances protection and leaves skin silky and soft  
• For sunscreens, color cosmetics and personal care products  
• Max concentration: 15% (EU) |
| Mfsorb® 101       | Benzophenone-4 | 4065-45-6 | • Water-soluble  
• A secondary UVB absorber with activity in UVA region  
• Protects colorants against fading  
• Helps to protect fragrances and active ingredients against oxidation  
• For anti-aging face care products and sunscreens  
• Max concentration: 6% (EC) 10% (US, AUS, JP) |
| Mfsorb® 102       | Benzophenone-5 | 6628-37-1 | • High absorptivity  
• Stable to light and heat  
• For sunscreens, shampoo and shower gel products  
• Max concentration: 5% (EC) 10% (US, AUS, JP) |
| Mfsorb® 103       | Benzophenone-9 | 76655-36-5 | • For sunscreens, moisturizers, lotions, shampoos and hair sprays  
• Max concentration: 10% |
| Mfsorb® 104       | Octocrylene | 6197-30-4 | • Enhances the water resistance of formulas  
• Good solubilizer for solid UV filter  
• The effective photostabilizer for Avobenzone  
• Enables to increase UVA-II absorption in the final products  
• Used for sun care formulas in personal care products and color cosmetics, as well as skin and nail care products  
• Max concentration: 10% |
| Mfsorb® 105       | Etoctylene | 5232-99-5 | • Excellent UV protection  
• Good heat stability |
| Mfsorb® 201       | Benzophenone-2 | 131-55-5 | • Excellent stability of light and heat  
• Good compatibility |
| Mfsorb® 202       | Benzophenone-3 | 131-57-7 | • Oil soluble broad-spectrum sunscreen  
• Provides UV protection  
• For sunscreens, moisturizers, shampoos, hair care products, lipsticks, lip balms and nail polish  
• Max concentration: 6% (EU, ASEAN, US) 5% (JP) |
Inorganic UV filters

Mfsorb® Ti-AL76TS

**INCI:**
Titanium Dioxide (and) Alumina (and) Triethoxycaprylylsilane

**CAS No.:**
13463-67-7/1344-28-1 /2943-75-1

**Descriptions:**
- Double surface treated, pure rutile titanium dioxide powder
- Very good dispersion and certain fluidity and lubricity
- Effective UV shielding ability and certain repairing and whitening effect
- With physical sunscreen and whitening effects, used in a wide range of cosmetics, especially sunscreen cosmetics

**Properties:**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Titanium Dioxide</th>
<th>Alumina</th>
<th>Triethoxycaprylylsilane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle size</td>
<td>≥100nm</td>
<td>0.5-0.8%</td>
<td>3.0-6.0%</td>
</tr>
<tr>
<td>Dispersibility</td>
<td>Dispersed in oil, not dispersed in water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application:**
- Used for sunscreens, whitening and anti-wrinkle products, day creams, BB and CC beauty products, baby care products

**Concentration:**
- 1%-25%

Mfsorb® Ti-SI7114C

**INCI:**
Titanium Dioxide (and) Silica (and) Triethoxycaprylylsilane

**CAS No.:**
13463-67-7/7633-96-8 /2943-75-1

**Descriptions:**
- Double surface treated, pure rutile titanium dioxide powder
- Very good dispersion and certain fluidity and lubricity
- Effective UV shielding ability and certain repairing and whitening effect
- With physical sunscreen and whitening effects, used in a wide range of cosmetics, especially sunscreen cosmetics

**Properties:**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Titanium Dioxide</th>
<th>Silica</th>
<th>Triethoxycaprylylsilane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle size</td>
<td>≤50nm</td>
<td>≤5.0%</td>
<td>≤5.0%</td>
</tr>
<tr>
<td>Dispersibility</td>
<td>Dispersed in oil, not dispersed in water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application:**
- Used for sunscreens, whitening and anti-wrinkle products, day creams, BB and CC beauty products, baby care products

**Concentration:**
- 1%-25%
**Mfsorb® S17**

**INCI:**
Ethylhexyl Methoxyphenyl Triazine (and) Diethylamino Hydroxybenzoyl Hexyl Benzate

**Properties:**
- An effective UV filter with broad spectrum protection
- Compatible with various cosmetic oils and solvents
- Prevents the colorants from fading
- Improves the oxidation stability of fragrances and active ingredients

**Applications:**
- Suitable for sunscreen and anti-aging products
- Max concentration: 15.30% (EU) AUSTRALIA: 11.5% (KR) 20.5% (JP)

**Mfsorb® Colomate**

**INCI:**
Octocrylene (and) Homosalate (and) Butyl Methoxydibenzoyl methane

**Properties:**
- An oil-soluble liquid and is easy to formulate
- A blend of Mfsorb® UV filters in a photostabilizing ratio for broad-spectrum protection
- For protection of color and other photosensitive ingredients

**Applications:**
- Used in perfumes, lotions, shampoos, shower gels, hair gels and other clear gels
- Recommended use level: 0.05-0.3%

**Mfbooster™ S19**

**INCI:**
Acrylates Copolymer

**CAS No.:**
1897432-34-6

**Properties:**
- Stabilizes avobenzone
- A faster excited state quencher than Octocrylene while also providing for film forming properties. In sun protection formulas
- Enhances the water resistance of products

**Applications:**
- Sun care
- Color cosmetics
- Facial skin care
- Recommended use level: 5%-9%

**Mfbooster™ S20**

**INCI:**
Butyl octyl salicylate

**CAS No.:**
190085-41-7

**Properties:**
- Significantly increases the In vivo SPF performance
- A good sunscreen solvent, enables to improve the UV absorption of Avobenzone and Octinoxate
- An excellent carrier for micronized Titanium Dioxide, Zinc Oxide and cosmetic colorants
- An excellent in topical preparations for skin and hair

**Applications:**
- Beach wear sun care
- Eye Area and facial color cosmetics
- Hand & Body Care
- Recommended use level: 2%-10%

**Mfbooster™ 50**

**INCI:**
Ethylhexyl Methoxyxycrylene

**CAS No.:**
947753-66-4

**Properties:**
- An outstanding solvent for crystalline UV filters
- Avobenzone photosensitizer
- Reduces the photocatalytic activity of inorganic UV filters

**Applications:**
- Sun care
- Color cosmetics
- Skin care
- Recommended use level: 3%-5%