Isopar™ fluids are high purity, virtually odorless synthetic isoparaffinic fluids which can be used in personal care products. They are extensively used as a viscosity reducing agent for personal care products due to their compatibility with many non-polar ingredients and good spreadability properties. Isopar fluids are also recognized for their lack of color and narrow distillation range. These fluids may also be a cost effective alternative to other isoalkanes with comparable performance.

**Physical and chemical properties**

A broad portfolio of Isopar fluids is available to provide a range of viscosities and volatilities for greater formulation flexibility. Isopar C, Isopar E, Isopar G and Isopar H fluids have lower boiling ranges, allowing them to be used in personal care products that require fast to moderate drying rates. Isopar L and Isopar M fluids possess the advantage of a flash point of more than 60 °C, meaning they do not qualify as dangerous goods under DG Transport regulations.

**Features of Isopar fluids**

- Virtually odorless, with typical aromatic content ≤ 0.01%
- Low viscosity
- Narrow distillation range for a high degree of consistent quality, with predictable performance
- Compatible with most non-polar ingredients used in personal care
- Globally available
**Purity**

Isopar® fluids are produced by an oligomerization or alkylation process from purified monomers, making them fully synthetic. Careful consideration is taken to ensure high purity is achieved during the treatment and separation process. Therefore, Isopar fluids typically contain extremely low levels of impurities such as benzene, sulfur, heavy metals and polyaromatic hydrocarbons (PAH).

**Suitable for use in personal care products**

Listed in the International Cosmetic Ingredient Dictionary and Handbook of the Personal Care Products Council (formerly the Cosmetic, Toiletry and Fragrance Association), Isopar fluids are suitable for use in cosmetic or other personal care products. Being soluble in many non-polar ingredients such as cosmetic esters, natural oils and silicones, Isopar fluids give ease of formulation for various products.

**Skin irritation potential**

Some hydrocarbon solvents with a boiling range < 150°C or carbon number less than C-9, are classified as a “skin irritant” (H315). Other hydrocarbon solvents in the C9 through C19 range may cause skin defatting, resulting in skin dryness, flaking or cracking. Defatting represents a lower degree of harm compared to irritation, but could lead to irritation under specific exposure conditions (i.e. prolonged occlusive exposures).

In most personal care formulations, Isopar fluids are diluted to low concentrations, reducing the potential for adverse skin reactions, including skin defatting. In skin irritation tests conducted with Isopar fluids diluted to 50% in mineral oil or petrolatum, minimal evidence of adverse skin reactions is observed.

To avoid prolonged skin contact, Isopar fluids are generally recommended for semi-occlusive and non-occlusive applications. As classification and labeling rules may differ from country to country, please consult the safety data sheets of the ExxonMobil Fluids of interest at the following address: http://www.msds.exxonmobil.com/IntApps/psims/psims.aspx?brand=xomcc

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### International Nomenclature Cosmetic Ingredients (INCI) Name

<table>
<thead>
<tr>
<th>Products</th>
<th>INCI Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopar C</td>
<td>C7-8 Isoparaffin</td>
</tr>
<tr>
<td>Isopar E</td>
<td>C8-9 Isoparaffin</td>
</tr>
<tr>
<td>Isopar G</td>
<td>C10-11 Isoparaffin</td>
</tr>
<tr>
<td>Isopar H</td>
<td>C11-12 Isoparaffin</td>
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<tr>
<td>Isopar L</td>
<td>C11-13 Isoparaffin</td>
</tr>
<tr>
<td>Isopar M</td>
<td>C13-14 Isoparaffin</td>
</tr>
</tbody>
</table>

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