

OphthaSil™ 4000 silicone surfactant TDS

OphthaSil* 4000 silicone surfactant

Description

OphthaSil 4000 is a pendant structure silicone block polyether surfactant.



OphthaSil 4000 silicone surfactant may help increase wettability, lubricity or release in contact lens manufacturing.

Key Features and Typical Benefits

- Water Soluble
- Wetting
- Lubricating
- Releasing

Potential Applications

- Contact Lens Processing

Typical Physical Properties

Property	Value
MW (g/mol)	4000
Color GVS ¹	2
Specific Gravity 25/25°C	1.066
Flash Point ² (°C)	74[165°F]
Viscosity @25°C (cSt)	110
Solvent pH @25°C	7
Refractive Index @25°C	1.45
Surface Tension ³ (mN/m)	25.1
Cloud Point ⁴ (°C)	64[147°F]
CMC Weight ⁵ (g/100g)	0.005
Polyether Type	All EO

Typical properties are average data and are not to be used as or to develop specifications.

¹ Gardner Varnish Scale

² Pensky-Martens, Closed Cup, ASTM method D93

³ Surface tension at 25°C on 0.1% (w/w) aqueous solutions either DeNooy Ring or Wihelmy Plate method.

⁴ Cloud Point measured visually on 1% (w/w) aqueous solutions

⁵ Critical Micelle Concentration in water

Availability

OphthaSil 4000 silicone surfactant is currently available in 0.9kg bottles and 18kg pails (typical average weights).

Shelf Life & Storage

The typical shelf life of four years from the date of manufacture of the material will be indicated by the “use before date” on the associated documents when stored in the unopened containers at 43°C or less.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. MSDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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