SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier:
Product name: MIRASIL SERUM

Relevant identified uses of the substance or mixture and uses advised against:
Identified uses: Preparation of speciality cosmetics.
Uses advised against: None known.

Details of the supplier of the safety data sheet:
Manufacturer:
Bluestar Siliconas España S.A.
Calle Vic 3 Polígono Industrial La Florida
E-08130 Santa perpetua de Mogoda (Barcelona)
Telephone: +34 9 35 04 02 00
E-mail: fds.sil@bluestarsilicones.com

Supplier:
Bluestar Silicones Finland OY
ESKOLANTIE 1 A
FI-00720 Helsinki
Telephone: +358 9 3508770

Emergency telephone number: +358 9 3508770

SECTION 2: Hazards identification

Classification of the substance or mixture:
The product has not been classified as hazardous according to the legislation in force.

Hazard summary:
Physical hazards: No specific recommendations.

Health hazards:
Inhalation: No specific symptoms noted.
Eye contact: No specific symptoms noted.
Skin contact: No specific symptoms noted.
Ingestion: No specific symptoms noted.
Other Health Effects: No other information noted.

Environmental hazards: Not regarded as dangerous for the environment.

Label elements: Safety data sheet available for professional user on request.

Other hazards: No data available.

SECTION 3: Composition/information on ingredients
Mixtures:

**General information:** Mixture of Polyorganosiloxanes. Solvent

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Concentration</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle; Gasoil - unspecified</td>
<td>&lt;15%</td>
<td>64742-46-7</td>
<td></td>
<td></td>
<td>#</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. This substance has workplace exposure limit(s). PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

**Classification:**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle; Gasoil - unspecified</td>
<td>DPD: Xn; R65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLP: Asp. Tox. 1;H304</td>
<td></td>
</tr>
</tbody>
</table>


The full text for all R/H-phrases is displayed in section 16.

**SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

**Description of first aid measures:**

- **Inhalation:** Not relevant.
- **Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.
- **Skin contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water.
- **Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**Most important symptoms and effects, both acute and delayed:** None known.

**Indication of any immediate medical attention and special treatment needed:**

- **Hazards:** No specific recommendations.
- **Treatment:** No specific recommendations.

**SECTION 5: Firefighting measures**

**General fire hazards:** No specific recommendations.

**Extinguishing media:**

- **Suitable extinguishing media:** Extinguish with foam, carbon dioxide or dry powder.
- **Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture:** Combustible.
Advice for firefighters:

Special fire fighting procedures: Water spray should be used to cool containers.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions: Do not discharge into drains, water courses or onto the ground. Collect spillage. For a large spillage, contain the spillage by bunding.

Methods and material for containment and cleaning up: Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent. (cf.: § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.

Notification Procedures: Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

SECTION 7: Handling and storage:

Precautions for safe handling: No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

Conditions for safe storage, including any incompatibilities: Avoid discharge into drains, water courses or onto the ground. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Avoid contact with oxidizing agents. Suitable containers: Steel drums coated with epoxy-resin.

Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

Control parameters:

Occupational exposure limits:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Type</th>
<th>Exposure Limit values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle; Gasoil - unspecified - Mist.</td>
<td>HTP 8H</td>
<td>5 mg/m³</td>
<td>Finland. Workplace Exposure Limits (2009)</td>
</tr>
<tr>
<td></td>
<td>HTP 8H</td>
<td>5 mg/m³</td>
<td>Finland. Workplace Exposure Limits (2009)</td>
</tr>
</tbody>
</table>

Exposure controls:

Appropriate engineering controls: No specific recommendations.

Individual protection measures, such as personal protective equipment:

General information: No specific precautions.

Eye/face protection: Safety Glasses
**Skin protection:**
- **Hand protection:** Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC).
- **Other:** It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

**Respiratory Protection:** If ventilation is insufficient, suitable respiratory protection must be provided.

**Hygiene measures:** Provide eyewash station and safety shower.

**Environmental Controls:** No data available.

### SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Viscous.</td>
</tr>
<tr>
<td>Color</td>
<td>Colourless to slightly opalescent.</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>No data available.</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C (Closed cup according to method Afnor T 60103.)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability Limit - Upper (%)−</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability Limit - Lower (%)−</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0,91 (20 °C) Approximate</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Practically Insoluble</td>
</tr>
<tr>
<td>Solubility (other)</td>
<td>Toluene.: Miscible (in all proportions).</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>No data available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Approximate 800 mm2/s (25 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity:</strong></td>
<td>No other information noted.</td>
</tr>
<tr>
<td><strong>Chemical stability:</strong></td>
<td>Stable</td>
</tr>
<tr>
<td><strong>Possibility of hazardous reactions:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Conditions to avoid:</strong></td>
<td>No other information noted.</td>
</tr>
<tr>
<td><strong>Incompatible materials:</strong></td>
<td>Strong oxidizing agents.</td>
</tr>
</tbody>
</table>
Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

### SECTION 11: Toxicological information

**Information on likely routes of exposure**

- **Inhalation:** No data available.
- **Ingestion:** No data available.
- **Skin contact:** No data available.
- **Eye contact:** No data available.

**Information on toxicological effects:**

**Acute Toxicity:**

- **Oral:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - LD 50 (Rat): > 5 000 mg/kg

- **Dermal:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - LD 50 (Rabbit): > 3 160 mg/kg

- **Inhalation:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - LC 50 (Rat, 4 h): > 5 266 mg/l

- **Repeated dose toxicity:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - No data available.

- **Skin corrosion/irritation:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - No data available.

- **Serious eye damage/eye irritation:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
      - No data available.
Respiratory or skin sensitization:

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - Not a skin sensitizer.

Germ cell mutagenicity:

- **In vitro:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
    - No data available.

- **In vivo:**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
    - No data available.

Carcinogenicity:

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - No data available.

Reproductive toxicity:

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - No effects expected (assessment based on ingredients).

Reproductive toxicity (Fertility):

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - No data available.

Developmental Toxicity (Teratogenicity):

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - No data available.

Specific target organ toxicity - single exposure:

- **Product:** No data available.
- **Specified substance(s):**
  - Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
  - No effects expected (assessment based on ingredients).

Specific target organ toxicity - repeated exposure:
Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

No effects expected (assessment based on ingredients).

Aspiration hazard:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

May be fatal if swallowed and enters airways.

Other adverse effects:

SECTION 12: Ecological information

Toxicity:

Acute toxicity:

Fish:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

LC 50 (Flatfish, flounder (Scophthalmus maximus), 96 h): > 1 028 mg/l

Aquatic invertebrates:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

LC 50 (Calanoid copepod (Acartia tonsa), 48 h): > 3 193 mg/l

Chronic Toxicity:

Fish:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

No data available.

Aquatic invertebrates:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

No data available.

Toxicity to Aquatic Plants:

Product: No data available.

Specified substance(s): Distillates (petroleum), hydrotreated middle; Gasoil - unspecified

LC 50 (Green algae (Chlorella kessleri), 72 h): > 10 000 mg/l

Persistence and degradability:

Biodegradation:

Product: The product is not readily biodegradable.
BOD/COD ratio:
Product: No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
No data available.

Bioaccumulative potential:
Product: Will not bio-accumulate.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments:
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
No data available.

Results of PBT and vPvB assessment:
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified
None Reported

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Waste treatment methods:

General information: The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

European Waste Codes:

SECTION 14: Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: No special precautions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National Regulations:

Chemical safety assessment: No data available.
SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the R-phrases and H-statements in section 2 and 3:

- H304  May be fatal if swallowed and enters airways.
- R65   Harmful: may cause lung damage if swallowed.

Training information: No data available.

Inventory Status

- Australia AICS: On or in compliance with the inventory
- Canada DSL Inventory List: On or in compliance with the inventory
- EU EINECS List: On or in compliance with the inventory
- Japan (ENCS) List: On or in compliance with the inventory
- China Inv. Existing Chemical Substances: On or in compliance with the inventory
- Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
- Philippines PICCS: Not in compliance with the inventory
- US TSCA Inventory: On or in compliance with the inventory
- New Zealand Inventory of Chemicals: Not in compliance with the inventory

Issue date: 06.08.2013

SDS No.: 

Disclaimer: The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.