SAFETY DATA SHEET

1. Identification

Product identifier: MIRASIL C-DMX 12

Recommended use and restriction on use

Recommended use: Preparation of speciality cosmetics.
Restrictions on use: FDA regulated use only.

Manufacturer/Importer/Supplier/Distributor Information

Supplier
Company Name: Bluestar Silicones USA Corp.
Address: Two Tower Blvd, Suite 1601
08816-1100 East Brunswick, NJ
Telephone: +1 (732) 227-2060
Fax: +1 (732) 249-7000

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

2. Hazard(s) identification

Hazard Classification

Physical Hazards
- Flammable liquids: Category 4

Health Hazards
- Toxic to reproduction: Category 2

Label Elements

Hazard Symbol:

Signal Word: Warning

Hazard Statement: Combustible liquid.
Suspected of damaging fertility or the unborn child.

Precautionary Statement

Prevention: Use personal protective equipment as required.
Response: If exposed or concerned: Get medical advice/attention.
Storage: Store in well-ventilated place.
Disposal: Dispose of contents/container to an appropriate treatment and disposal
facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: No data available.

### 3. Composition/information on ingredients

#### Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>Content in percent (%)(^*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decamethylcyclopentasiloxane</td>
<td>D5, 541-02-6</td>
<td>60 - 100%</td>
<td></td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>D4, 556-67-2</td>
<td>0.1 - 1%</td>
<td></td>
</tr>
</tbody>
</table>

\(^*\) All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Mixture of organosiloxanes, polyorganosiloxanes.

### 4. First-aid measures

#### General information:
For further information refer to section 8 "Exposure-controls/personal protection".

#### Ingestion:
Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

#### Inhalation:
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

#### Skin Contact:
Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

#### Eye contact:
In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** None known.

**Hazards:** No specific recommendations.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** No specific recommendations.

### 5. Fire-fighting measures

**General Fire Hazards:** No specific recommendations.
Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:**
Dry chemical, alcohol resistant foam or carbon dioxide (CO2).

**Unsuitable extinguishing media:**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:**
Combustible liquid. Hazardous Decomposition Products: formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

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

**Special protective equipment for fire-fighters:**
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool and disperse vapors.

6. Accidental release measures

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

**Methods and material for containment and cleaning up:**
Absorb with inert material. Scrape up and place in appropriate closed container see Section 7 of the MSDS.

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

**Environmental Precautions:**
Do not allow to enter drains, sewers or watercourses.

7. Handling and storage

**Precautions for safe handling:**
See Section 8 of the SDS for Personal Protective Equipment. For further information, refer to Section 10: "Stability and Reactivity".

**Conditions for safe storage, including any incompatibilities:**
Store in tightly closed original container in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

**Control Parameters
Occupational Exposure Limits**
None of the components have assigned exposure limits.

**Appropriate Engineering Controls**
Use engineering controls to reduce air contamination to permissible exposure level. Observe Occupational Exposure Limits and minimize the risk of inhalation.
Individual protection measures, such as personal protective equipment

**General information:**
Provide sufficient ventilation during operations which cause vapor formation.

**Eye/face protection:**
Wear approved safety glasses.

**Skin Protection**
**Hand Protection:**
Protective gloves are recommended.

**Other:**
Wear suitable protective clothing.

**Respiratory Protection:**
No protection is ordinarily required under normal conditions of use and with adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

**Hygiene measures:**
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

**Appearance**
- **Physical state:** liquid
- **Form:** Gel
- **Color:** Colorless to pale yellow
- **Odor:** Slight
- **Odor threshold:** No data available.
- **pH:** not applicable
- **Melting point/freezing point:** No data available.
- **International Inventories:** > 95 °F (35 °C)
- **Flash Point:** > 196 °F (91 °C)
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.
  - **Flammability limit - upper (%):** No data available.
  - **Flammability limit - lower (%):** No data available.
- **Vapor pressure:** No data available.
- **Vapor density:** No data available.
- **Relative density:** 0.94 (77 °F (25 °C))
- **Solubility (ies):**
  - **Solubility in water:** Insoluble in water
  - **Solubility (other):** No data available.
- **Partition coefficient (n-octanol/water):** No data available.
- **Auto-ignition temperature:** No data available.
- **Decomposition temperature:** No data available.
- **Viscosity:** 400,000 mm2/s

**Other information**
- **Oxidizing properties:** Not considered as oxidizing.
10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Stable

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidizers, strong acids, and strong bases.

Hazardous Decomposition Products: Thermal decomposition may liberate oxides of carbon and amorphous silica.

11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane LD 50 (Rat): 4,800 mg/kg

Dermal

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane LD 50LD 50 (Rat): 2,375 mg/kg
Inhalation
Product: LC 50 (Rat): 8.67 mg/l

Repeated dose toxicity
Product: NOAEL (Rat, Oral): >= 1,000 mg/kg
NOAEL (Rat, Inhalation - vapor): >= 2.42 mg/l
NOAEL (Rat, Dermal): >= 1,600 mg/kg

Skin Corrosion/Irritation
Product: (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation
Product: (Rabbit): Not irritating

Respiratory or Skin Sensitization
Product: Not a skin sensitizer.

Carcinogenicity
Product: No data available.

- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
- US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: Chromosomal aberration: No mutagenic components identified
Bacteria: No mutagenic components identified

In vivo
Product: (Rat) No mutagenic components identified

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.
12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

**Fish**
- **Product:** LC 50 (Oncorhynchus mykiss, 96 h): > 0.016 mg/l

**Aquatic Invertebrates**
- **Product:** LC 50 (Water flea (Daphnia magna), 48 h): > 0.0029 mg/l

Chronic hazards to the aquatic environment:

**Fish**
- **Product:** NOEC (Oncorhynchus mykiss, 90 d): >= 0.014 mg/l

**Aquatic Invertebrates**
- **Product:** NOEC (Water flea (Daphnia magna), 21 d): >= 0.015 mg/l

**Toxicity to Aquatic Plants**
- **Product:** EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0.012 mg/l
  - NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): >= 0.012 mg/l

Persistence and Degradability

**Biodegradation**
- **Product:** 0.14 % (28 d) The product is not readily biodegradable.

**BOD/COD Ratio**
- **Product:** No data available.

Bioaccumulative Potential

**Bioconcentration Factor (BCF)**
- **Product:** Fathead Minnow, Bioconcentration Factor (BCF): 7,060

**Partition Coefficient n-octanol / water (log Kow)**
- **Product:** No data available.

Specified substance(s):
- Decamethylcyclopentasiloxane: Log Kow: 5.20

Mobility in Soil:
- No data available.

Known or predicted distribution to environmental compartments
- Decamethylcyclopentasiloxane: No data available.
- Octamethylcyclotetrasiloxane: No data available.

Other Adverse Effects:
- No data available.

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

14. Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: If this material is packaged in containers > 119 gallons, it will be regulated as NA1993, COMBUSTIBLE LIQUID, N.O.S., PGIII.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

☑️ Acute (Immediate) ☑️ Chronic (Delayed) ☑️ Fire ☐ Reactive ☐ Pressure Generating

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act
No ingredient regulated by NJ Right-to-Know Law present.
US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances
No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:
US TSCA Inventory: Exempt

US TSCA Inventory: For FDA regulated use only.

EINECS, ELINCS or NLP: On or in compliance with the inventory

16. Other information, including date of preparation or last revision

HMIS Hazard ID

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID

Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 06/29/2015
Revision Date: No data available.
Version #: 2.0
Further Information: No data available.
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.