

Polysilicone-15

Material Safety Data Sheet (created 1-30-2014)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Polysilicone 15

INCI Name: Polysilicone 15

Synonym: Dimethicodiethyl-Benzal Malonate

CAS Number: 207574-74-1

Chemical Name: see below

Company Name: MakingCosmetics Inc.

Company Address: 35318 SE Center Street, Snoqualmie WA 98065 (USA), Phone 425-292-9502

2. Hazards identification

Emergency Overview

Form	liquid, viscous
Color	colorless to slightly yellow
Odor	slight, characteristic

3. Composition/Information on ingredients

Characterization	partly substituted polysiloxane (n ~60) UV B filter for cosmetic applications
Chemical name	- α -(Trimethylsilyl) ω -[(trimethylsilyloxy)poly[oxy(dimethyl)-silylene]-co-[oxy(methyl)(2-{p-[2,2-bis(ethoxycarbonyl)vinyl]-phenoxy}-1-methyleneethyl)silylene]-co-[oxy(methyl)-(2-{p-[2,2-bis(ethoxycarbonyl)vinyl]phenoxy}prop-1-enyl)-silylene]
Percentage	100 %

4. First-aid measures

Eye contact	- rinse immediately with tap water for 10 minutes - open eyelids forcibly
Skin contact	- remove immediately contaminated clothes, wash affected skin with water and soap
Inhalation	- remove the casualty to fresh air and keep him/her calm - in the event of symptoms get medical treatment
Note to physician	- treat symptomatically

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5. Fire-fighting measures

Suitable extinguishing media	- foam, powder, carbon dioxide
Flash point (liquid)	> 100 °C (DIN 51'758) 174 °C
Unsuitable extinguishing media	- use water spray and water jet for cooling purposes only (fat explosion hazard)
Protection of fire-fighters	- precipitate gases/vapours/mists with water spray

6. Accidental release measures

Environmental protection	- do not allow to enter drains or waterways
Methods for cleaning up	- collect spills with inert adsorbent and hand over to waste removal - clean contaminated areas with little ethanol

7. Handling and storage

Handling

Technical measures	- avoid formation of aerosols - local exhaust ventilation necessary
Suitable materials	- stainless steel, plastic, aluminium, enamel, glass, polyethylene - test plastics before use

Storage

Storage conditions	- below 25 °C - keep container tightly closed
Packaging materials	- tightly closing; material: coated steel (protective lacquer), polyethylene

8. Exposure controls/Personal protection

Engineering Measures - see 7.

Personal protective equipment

- Respiratory protection**
- respiratory protection not necessary during normal operations
 - in case of formation of aerosols: respirator with independent air supply or particle respectively filter mask (depending on the aerosol composition)
- Hand protection**
- protective gloves (eg made of NR Natural Rubber, NBR Acrylnitril-Butadien-Rubber)
- Eye protection**
- safety glasses

9. Physical and chemical properties

Color	colorless to slightly yellow
Form	liquid, viscous
Odor	slight, characteristic
Density	1.023 g/cm ³ (20 °C; OECD No. 109)
Viscosity	~ 750 cP
Surface tension	73 mN/m (20 °C)
Refraction index	n_D^{20} 1.44
Solubility	≤ 0.1 mg/l, water (20 °C) 46'000 mg/l, n-octanol (20 °C) soluble, organic solvents
Partition coefficient	log P _{ow} > 6 (30 °C) (HPLC Method, OECD No. 117)
Solidification point	can not be determined on cooling down to 223 K (-50 °C), increasing viscosity without reaching a discrete freezing, ie crystallisation point
Boiling temperature	> 210 °C (1013 hPa) decomposition starting at 223 °C, without reaching the boiling point
Vapour pressure	< 20 Pa (20 °C) (OECD No. 104)
Ignition point (liquid)	430 °C (DIN 51'794)

10. Stability and reactivity

Stability - stable under the conditions mentioned in chapter 7

11. Toxicological information

Acute toxicity	<ul style="list-style-type: none"> - LD₅₀ > 2'000 mg/kg (oral, rat) (OECD No. 420 (Fixed Dose Method)) - LD₅₀ > 2'000 mg/kg (dermal, rat)
Local effects	<ul style="list-style-type: none"> - skin: non-irritant (rabbit; OECD No. 404) - eye: non-irritant (rabbit; OECD No. 405) - skin: not phototoxic (guinea pig)
Sensitization	<ul style="list-style-type: none"> - non-sensitizing (guinea pig) (OECD No. 406) - not photosensitising (guinea pig)
Subchronic toxicity	<ul style="list-style-type: none"> - NOAEL 1000 mg/kg/d (oral, rat; 13 weeks)
Mutagenicity	<ul style="list-style-type: none"> - not mutagenic (various in vitro test systems) - not photomutagenic (in vitro test system)
Note	<ul style="list-style-type: none"> - LC₅₀ (inhal., rat, 4 hours): 0.285 mg/l < LC₅₀ < 1.838 mg/l This Acute Inhalation Toxicity Study was done under very specific conditions. These conditions were designed to produce a respirable aerosol. The test substance was heated to 50°C plus as a main condition. These conditions are not realistic for use of this product with normal handling. Therefore, this test is regarded as not relevant for classification of this product.

12. Ecological information

Ready biodegradability	<ul style="list-style-type: none"> - not readily biodegradable < 1 %, 35 d (Manometric Respirometry Test, OECD No. 301 F)
Inherent biodegradability	<ul style="list-style-type: none"> - not inherently biodegradable < 1 %, 35 d (MITI Test II, OECD No. 302 C)
Ecotoxicity	<ul style="list-style-type: none"> - water soluble part barely toxic for microorganisms, no adverse influence on substrate biodegradation concentration (35 d) 100 mg/l (nominal concentration) (Manometric Respirometry Test, OECD No. 301 F) - barely toxic for fish (nominal concentration > 100 mg/l) (carp) NOEC (96 h) > 100 mg/l (nominal concentration) (OECD No. 203) - barely toxic for planktonic crustaceans (nominal concentration > 100 mg/l) (Daphnia magna) NOEC (48 h) > 100 mg/l (nominal concentration) (OECD No. 202) - barely toxic for algae (nominal concentration > 100 mg/l) (Selenastrum capricornutum) NOEC (72 h) > 100 mg/l (nominal concentration) (OECD No. 201)

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13. Disposal considerations

- | | |
|---------------------|--|
| Waste from residues | <ul style="list-style-type: none">- incinerate in qualified installation with flue gas scrubbing- observe local/national regulations regarding waste disposal |
| RCRA waste | <ul style="list-style-type: none">- not regulated under RCRA |

14. Transport information

- | | |
|-----------------|--|
| DOT/TDG Remark: | <ul style="list-style-type: none">- Not regulated for transport under DOT, TDG, IATA, or IMDG. |
| Note | <ul style="list-style-type: none">- not classified as hazardous under DOT, IATA, IMDG |

15. Regulatory information

- | | |
|----------------------------------|---|
| US and CAN hazard classification | <ul style="list-style-type: none">- No components are listed in the WHMIS IDL.- This product is not identified on the Canadian Domestic Substance List or the Non-Domestic Substance List.- This product is not considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and is not a controlled product under the Canadian Controlled Products Act.- None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4). |
| TSCA Status | <ul style="list-style-type: none">- Contains ingredient(s) not on the TSCA Inventory |
| Reporting Requirements | <ul style="list-style-type: none">- The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.- In New Jersey, report all releases which enter a waterway or into soil, or which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEP Hotline (1-877-WARN-DEP) and to local officials.- State and local regulations vary and may impose additional reporting requirements. |

16. Other information

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|-----------------------|---|
| Canada update | <ul style="list-style-type: none">- This MSDS has been reviewed on 01/11/2007 for compliance with Canadian regulation |
| Edition documentation | <ul style="list-style-type: none">- changes from previous version in sections 7, 11 |



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