## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

**1.1 Product identifier.**

| | |
|---|---|
| Product Name: | Pentameric cyclomethicone |
| Product Code: | 93177 |
| Chemical Name: | decamethylcyclopentasiloxane |
| CAS No: | 541-02-6 |
| EC No: | 208-764-9 |
| Registration No: | 01-2119511367-43-XXXX |

**1.2 Relevant identified uses of the substance or mixture and uses advised against.**

cosmetic use

**Uses advised against:**
Uses other than those recommended.

**1.3 Details of the supplier of the safety data sheet.**

| | |
|---|---|
| Company: | **GUINAMA** |
| Address: | C/ Oslo Nº3 |
| City: | 46185 La Pobla de Vallbona |
| Province: | Valencia |
| Telephone: | +34961869090 / 902119816 |
| Fax: | +34961850352 |
| E-mail: | ventas@guinama.com |
| Web: | www.guinama.com |

**1.4 Emergency telephone number:** +34961869090 / 902119816 (Only available during office hours; Monday-Friday; 08:00-18:00)

## SECTION 2: HAZARDS IDENTIFICATION.

**2.1 Classification of the substance or mixture.**
The product is not classified as hazardous within the meaning of Regulation (EC) No 1272/2008.

**2.2 Label elements.**
Este producto no esta clasificado como peligroso según el Reglamento CE 1272/2008.

**2.3 Other hazards.**

| Identifiers | Name | PBT,vPvB or endocrine disrupting properties substances |
|---|---|---|
| CAS No: 541-02-6<br>EC No: 208-764-9 | decamethylcyclopentasiloxane | vPvB substance |

mPmB: muy Persistente y muy Bioacumulable.

The substance is not PBT
Substance does not have endocrine disrupting properties.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.vPvB Substance (very Persistent and very Bioaccumulative).

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

**3.1 Substances.**

| Identifiers | Name | Concentrate | (*)Classification - Regulation (EC) No 1272/2008 |
|---|---|---|---|

*-Continued on next page.-*

| | | | Classification | Specifics concentration limits and Acute toxicity estimate |
|---|---|---|---|---|
| CAS No: 541-02-6<br>EC No: 208-764-9 | decamethylcyclopentasiloxane | 0 - 2.5 % | - | - |

**3.2 Mixtures.**
Not applicable.

## SECTION 4: FIRST AID MEASURES.

**4.1 Description of first aid measures.**
Due to the composition and type of the substances present in the product, no particular warnings are necessary.

**Inhalation.**
If breathing stops, seek emergency medical attention. Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

**Eye contact.**
Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

**Skin contact.**
Remove contaminated clothing.

**Ingestion.**
Keep calm. NEVER induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed.**
No known acute or delayed effects from exposure to the product.

**4.3 Indication of any immediate medical attention and special treatment needed.**
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

## SECTION 5: FIREFIGHTING MEASURES.

**5.1 Extinguishing media.**
**Suitable extinguishing media:**
Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

**Unsuitable extinguishing media:**
Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

**5.2 Special hazards arising from the substance or mixture.**
**Special risks.**
Exposure to combustion or decomposition products can be harmful to your health.

**5.3 Advice for firefighters.**
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

**Fire protection equipment.**
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES.

**6.1 Personal precautions, protective equipment and emergency procedures.**
For exposure control and individual protection measures, see section 8.

**6.2 Environmental precautions.**
Product not classified as hazardous for the environment, avoid spillage as much as possible.

**6.3 Methods and material for containment and cleaning up.**
Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

**6.4 Reference to other sections.**
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

## SECTION 7: HANDLING AND STORAGE.

**7.1 Precautions for safe handling.**
The product does not require special handling measures, the following general measures are recommended:
For personal protection, see section 8.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

**7.2 Conditions for safe storage, including any incompatibilities.**
The product does not require special storage measures.As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.
Keep away from oxidising agents and from highly acidic or alkaline materials.
Store the containers between 15 and 25 º C, in a dry and well-ventilated place.
Store according to local legislation. Observe indications on the label. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

**7.3 Specific end use(s).**
Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

**8.1 Control parameters.**

The product does NOT contain substances with Professional Exposure Environmental Limit Values.The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:

| Name | DNEL/DMEL | Type | Value |
|---|---|---|---|
| decamethylcyclopentasiloxane<br>CAS No: 541-02-6<br>EC No: 208-764-9 | DNEL (Workers) | Inhalation, Chronic, Local effects | 101 (mg/m³) |
| | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 405 (mg/m³) |
| | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 97,3 (mg/m3) |
| | DNEL (Workers) | Inhalation, Short term, Systemic effects | 97,3 (mg/m3) |
| | DNEL (Workers) | Inhalation, Chronic, Local effects | 24,2 (mg/m3) |

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| | | | |
|---|---|---|---|
| | DNEL (Workers) | Inhalation, Short term, Local effects | 24,2 (mg/m3) |
| | DNEL (Consumers) | Inhalation, Chronic, Systemic effects | 17,3 (mg/m3) |
| | DNEL (Consumers) | Inhalation, Short term, Systemic effects | 17,3 (mg/m3) |
| | DNEL (Consumers) | Inhalation, Chronic, Local effects | 4,3 (mg/m3) |
| | DNEL (Consumers) | Inhalation, Short term, Local effects | 4,3 (mg/m3) |
| | DNEL (Consumers) | Oral, Chronic, Systemic effects | 5 (mg/kg bw/day) |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
Concentration levels PNEC:

| Name | Details | Value |
|---|---|---|
| decamethylcyclopentasiloxane<br>CAS No: 541-02-6<br>EC No: 208-764-9 | STP | 10 (mg/L) |
| | Sediment (Freshwater) | 11 (mg/kg sediment dw) |
| | Sediment (Marinewater) | 1,1 (mg/kg sedimient dw) |
| | Soil | 3,77 (mg/kg soil dw) |

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

**8.2 Exposure controls.**

**Measures of a technical nature:**

| | |
|---|---|
| **Concentration:** | **100 %** |
| **Uses:** | **cosmetic use** |
| **Breathing protection:** | |
| If the recommended technical measures are observed, no individual protection equipment is necessary. | |
| **Hand protection:** | |
| If the product is handled correctly, no individual protection equipment is necessary. | |
| **Eye protection:** | |
| If the product is handled correctly, no individual protection equipment is necessary. | |
| **Skin protection:** | |
| PPE: | Work footwear. |
| Characteristics: | «CE» marking, category II. |
| CEN standards: | EN ISO 13287, EN 20347 |
| Maintenance: | This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people. |
| Observations: | Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

**9.1 Information on basic physical and chemical properties.**
Physical state: Liquid
Colour: Not applicable/Not available due to the nature/properties of the product
Odour: Characteristic
Odour threshold: Not applicable/Not available due to the nature/properties of the product
Melting point: -38 ºC
Freezing point: Not applicable/Not available due to the nature/properties of the product
Boiling point or initial boiling point and boiling range: 210 ºC
Flammability: Not applicable/Not available due to the nature/properties of the product

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Lower explosion limit: 0.45Vol%
Upper explosion limit: 13.21Vol%
Flash point: 82.7 ºC
Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product
Decomposition temperature: Not applicable/Not available due to the nature/properties of the product
pH: Not applicable/Not available due to the nature/properties of the product
Kinematic viscosity: 3.7 mm2/s
Solubility: Not applicable/Not available due to the nature/properties of the product
Hydrosolubility: 0.00001703
Liposolubility: Not applicable/Not available due to the nature/properties of the product
Partition coefficient n-octanol/water (log value): 8.023
Vapour pressure: 33.2 Pa
Absolute density: Not applicable/Not available due to the nature/properties of the product
Relative density: 0.96
Relative vapour density: Not applicable/Not available due to the nature/properties of the product
Particle characteristics: Not applicable/Not available due to the nature/properties of the product
Auto-ignition temperature: 400 ° C

**9.2 Other information**

Not applicable/Not available due to the nature/properties of the product

## SECTION 10: STABILITY AND REACTIVITY.

**10.1 Reactivity.**
There are no known reactivity hazards associated with this product

**10.2 Chemical stability.**
Stable at normal ambient temperatures and when used as recommended.

**10.3 Possibility of hazardous reactions.**
None known.

**10.4 Conditions to avoid.**
Avoid heat, flames and other sources of ignition. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

**10.5 Incompatible materials.**
Acids. Bases. Strong oxidising agents.

**10.6 Hazardous decomposition products.**
If this product is heated to >150 deg C, trace quantities of formaldehyde may be released and adequate ventilation is required. Oxides of carbon. Silica. formaldehyde

## SECTION 11: TOXICOLOGICAL INFORMATION.

**11.1 Information on hazard classes as defined in Regulation (EC) Nº 1272/2008.**

**Toxicological information.**

| Name | Acute toxicity | | | |
|---|---|---|---|---|
| | Type | Test | Kind | Value |
| decamethylcyclopentasiloxane<br><br>CAS No: 541-02-6 EC No: 208-764-9 | Oral | LD50 | Rat | 24100 mg/kg bw [1]<br><br>[1] National Technical Information Service. Vol. OTS0572801 |
| | Dermal | LD50 | Rabbit | 15300 mg/kg bw [1]<br><br>[1] Toxicology and Applied Pharmacology. Vol. 28, Pg. 313, 1974 |
| | Inhalation | | | |

*-Continued on next page.-*

Acute toxicity - oral
Acute toxicity oral (LD50
mg/kg)
5,000.0
Species Rat
Notes (oral LD50) LD50 >5000 mg/kg, Oral, Rat KLIMISCH RATING 1 1990 OECD 401
Acute toxicity - dermal
Acute toxicity dermal (LD50
mg/kg)
2,000.0
Species Rabbit
Notes (dermal LD50) LD50 >2000 mg/kg, Dermal, Rat klimisch 2 1977 OECD 402
Acute toxicity - inhalation
Acute toxicity inhalation (LC50
dust/mist mg/l)
8.67
Species Rat
Notes (inhalation LC50) LC50 8.67 mg/l, Inhalation, Rat KLIMISCH RATING 1 1994 OECD 403
Skin corrosion/irritation
Animal data rabbit KLIMISCH RATING 1 1990 OECD 404 Not irritating.
Serious eye damage/irritation
Serious eye damage/irritation Not irritating. klimisch rating 1 1990 OECD405
Skin sensitisation
Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. KLIMISCH RATING 1 2005 OECD 429
Germ cell mutagenicity
Genotoxicity - in vitro Bacterial reverse mutation test: Negative. OECD 471 KLIMISCH RATING 1 2003
Genotoxicity - in vivo Chromosome aberration: Negative. OECD 486 KLIMISCH RATING 1 2004
Carcinogenicity
Carcinogenicity NOAEL >=160 ppm, Inhalation, Rat 2005 KLIMISCH RATING 1
Reproductive toxicity
Reproductive toxicity - fertility Fertility: - NOAEL >=160 ppm, Oral, Rat F1 1999 KLIMISCH RATING 1
Reproductive toxicity -
development
Scientifically unjustified
Specific target organ toxicity - single exposure
STOT - single exposure Not available.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure NOAEC >=160ppm , Inhalation, KLIMISCH RATING 1 2005 OECD453

**11.2 Information on other hazards.**
**Endocrine disrupting properties**
This product does not contain components with endocrine-disrupting properties with effects on human health.
**Other information**
There is no information available on other adverse health effects.

## SECTION 12: ECOLOGICAL INFORMATION.

**12.1 Toxicity.**
No information is available regarding the ecotoxicity.
Toxicidad acuática aguda
Toxicidad aguda - peces NOEC, 96 horas: >16 µg/L, Oncorhynchus mykiss (Trucha irisada)
LC50, 96 horas: >16 µg/L, Oncorhynchus mykiss (Trucha irisada)
NOEC, 14 días: 16 µg/L, Oncorhynchus mykiss (Trucha irisada)
LC50, 14 días: >16 µg/L, Oncorhynchus mykiss (Trucha irisada)
klimisch calificación 1
2000
Directriz 204 de la OCDE
Toxicidad aguda - acuática
invertebrados
EC50, 48 horas: > 2,9 µg/L µg/L, Daphnia magna
NOEC, 48 horas: >2,9 µg/L, Daphnia magna
klimisch calificación 1
2002

*-Continued on next page.-*

OCDE 202
Toxicidad aguda - plantas acuáticas EC50, 96 horas: >12 µg/L, Pseudokirchneriella subcapitata
EC10, 96 horas: >12 µg/L, Pseudokirchneriella subcapitata
NOEC, 96 horas: >12 µg/L, Pseudokirchneriella subcapitata
klimisch calificación 1
2001
OCDE 201
Toxicidad aguda -
microorganismos
EC50, 3 horas: > 2000 mg/l, Lodo activado
klimisch calificación 1
1998
MÉTODO C.11 DE LA UE

**12.2 Persistence and degradability.**
Phototransformation - 50%: 10.4 days
klimisch rating 2
1991
Stability (hydrolysis) pH4 - Half-life : 9.3 hours @ 25°C
pH7 - Half-life : 1590 hours @ 25°C
pH9 - Half-life : 24.8 - 31.6 hours @ 25°C
pH5.5 - Half-life : 351 hours @ 25°C
pH8 - Half-life : 214 hours @ 25°C
klimisch rating 1
2006
OECD test guideline 111
Biodegradation - Degradation (%) 0.14: 28 days
klimisch rating 1
2004
OECD 310

No information is available on the degradability
vPvB Substance (very Persistent and very Bioaccumulative).

**12.3 Bioaccumulative potential.**
**Information about the bioaccumulation.**

| Name | Bioaccumulation | | | |
|---|---|---|---|---|
| | Log Pow | BCF | NOECs | Level |
| decamethylcyclopentasiloxane<br>CAS No: 541-02-6 EC No: 208-764-9 | 8.023 | - | - | Very high |

**12.4 Mobility in soil.**
Adsorption/desorption
coefficient
Water - log Koc: 5.17 @ 25.6 deg C°C klimisch rating 1 2007 OECD 10

**12.5 Results of PBT and vPvB assessment.**
vPvB Substance (very Persistent and very Bioaccumulative), according to assessment made in the Chemical Safety Report, substance meets criteria to be considered vPvB.

**12.6 Endocrine disrupting properties.**
Not available

**12.7 Other adverse effects.**
The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
No information is available about other adverse effects for the environment.

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## SECTION 13: DISPOSAL CONSIDERATIONS.

**13.1 Waste treatment methods.**
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

## SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

**14.1 UN number or ID number.**
Transportation is not dangerous.

**14.2 UN proper shipping name.**
Description:
ADR/RID: Not classified as hazardous for transport.
IMDG: Not classified as hazardous for transport.
ICAO/IATA: Not classified as hazardous for transport.

**14.3 Transport hazard class(es).**
Transportation is not dangerous.

**14.4 Packing group.**
Transportation is not dangerous.

**14.5 Environmental hazards.**
Transportation is not dangerous.
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

**14.6 Special precautions for user.**
Transportation is not dangerous.

**14.7 Maritime transport in bulk according to IMO instruments.**
Not classified as hazardous for transport.

## SECTION 15: REGULATORY INFORMATION.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.
Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

| Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|---|---|
| 70. Octamethylcyclotetrasiloxane (D4)<br>CAS No 556-67-2<br>EC No 209-136-7<br>Decamethylcyclopentasiloxane (D5)<br>CAS No 541-02-6<br>EC No 208-764-9 | 1. Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020.<br>2. For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application. |

**15.2 Chemical safety assessment.**
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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## SECTION 16: OTHER INFORMATION.

Changes regarding to the previous version:

- Changes in the information of the supplier (SECTION 1.3).
- Changes in the composition of the product (SECTION 3.2).
- Modifications in the first aid measures (SECTION 4.1).
- Addition of ecotoxicity values (SECTION 11.1).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

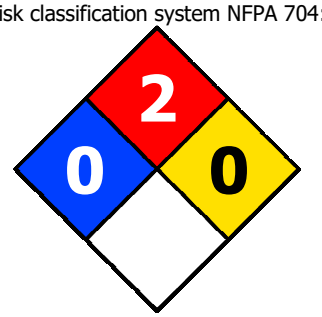
| | |
|---|---|
| Physical hazards | On basis of test data |
| Health hazards | Calculation method |
| Environmental hazards | Calculation method |

It is recommended that the product only be employed for the purposes advised.

**Information on the TSCA Inventory (Toxic Substances Control Act) USA:**

| CAS No | Name | State |
|---|---|---|
| 541-02-6 | decamethylcyclopentasiloxane | Registered |

Risk classification system NFPA 704:




Health hazard: 0 (Normal Material)

Flammability: 2 (Below 200°F)

Reactivity: 0 (Stable)

Abbreviations and acronyms used:

| | |
|---|---|
| BCF: | Bioconcentration factor. |
| CEN: | European Committee for Standardization. |
| DMEL: | Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum. |
| DNEL: | Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. |
| EC50: | Half maximal effective concentration. |
| PPE: | Personal protection equipment. |
| LC50: | Lethal concentration, 50%. |
| LD50: | Lethal dose, 50%. |
| NOEC: | No observed effect concentration. |
| PNEC: | Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment. |

Key literature references and sources for data:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/
Regulation (EU) 2020/878.
Regulation (EC) No 1907/2006.
Regulation (EC) No 1272/2008.

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The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

*-End of safety data sheet.-*