

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 1

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Cyclomethicone D5

Article No.: 87081

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Cosmetics

Solvent

Cleaning / washing agent and cleaning / washing additives.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Interlabshop B.V.

Address: Lage Brink 23, 7317 BD Apeldoorn The Netherlands

Tel./Fax.: Tel. +3155-5215016

Internet: www.Labshop.nl

E-Mail: labshop@labshop.nl

Importer: --

1.4. Emergency No. --

Emergency No.: --

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Classification according to Directive No.
67/548/EC or No. 1999/45/EC

The material is not subject to classification according to EC lists.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)

Hazard designation:

Signal word:

Hazard designation:

Safety designation:

P261

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P271

Use only outdoors or in a well-ventilated area.

Hazardous components for labelling:

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 2

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

2.3. Other Hazards

Vapors can cause an explosive mixture with air.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Silicone

Information on Components / Hazardous Ingredients:

Decamethylcyclopentasiloxane, REACH Reg. No. 01-2119511367-43	90 - 100 %	CAS-Nr: 541-02-6 EINECS-Nr: 208-764-9 EC-Nr:
---------------------------------------------------------------	------------	----------------------------------------------------

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

No special measures required.

After inhalation:

Supply fresh air.

Consult physician if symptoms persist.

After skin contact:

Wash off with plenty of water and soap.

If irritation continues consult a physician.

After eye contact:

Rinse eyes with water.

Seek medical attention if irritation persists.

After ingestion:

Do not induce vomiting.

Rinse mouth with plenty of water.

If symptoms persist consult physician.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

None known.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 3

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

jet.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Fumes can form an explosive mixture with air.

Risk of self-ignition with finely dispersed hot particles.

In case of fire: formation of carbon oxides, silicon oxides, formaldehyde.

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Wear self-contained respiratory protective device.

Further information:

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear appropriate protective equipment. Keep spectators away.

Keep away from sources of ignition. No smoking.

6.2. Environmental Precautions

Environmental precautions:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent, inert material (sand, earth) and dispose accordingly.

Dispose of the soaked absorbent material properly since this may cause self-heating.

6.4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Do not inhale vapors or mist.

The usual precautionary measures are to be adhered to when handling chemicals.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

Take off contaminated clothing immediately and reuse only after

next page. 4

87081 Cyclomethicone D5

Page 4

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

thoroughly cleaning these.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a well ventilated location.
Keep away from ignitable sources, heat and fire.*

Requirements for storage areas and containers:

*Keep container tightly closed.
The containers should be durably labelled.*

Information on fire and explosion protection:

*Take measures to prevent electrostatic discharge.
Do not store together with ignitable sources, heat and fire.
Do not store together with: oxidants.
Do not store together with explosive material, gases*

Storage class (VCI):

10; Combustible liquids (TRGS 510, Storage of hazardous materials in transportable containers)

Further Information:

7.3. Specific End Use(s)

Further information:

For further information for the use of silicones / organic oils in aerosol applications, please see the manual for this group of substances which was developed by the silicon industry (www.SEHSC.com).

8. Exposure Controls/Personal Protection**8.1. Parameters to be Controlled**

Parameters to be controlled (DE):

Decamethylcyclopentasiloxane (541-02-6): 10 ppm (TWA; OEL)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

*Decamethylcyclopentasiloxane (541-02-6):
97.3 mg/m³ (worker, inhalation, long-term/short-term exposition - systemic effects)
24.2 mg/m³ (worker, inhalation, long-term/short-term exposition - local effects)
17.3 mg/m³ (Consumer, inhalation, long-term/short-term exposition - systemic effects)
4.3 mg/m³ (Consumer, inhalation, long-term/short-term exposition - local effects)
5 mg/kg bw/d (consumer, swallowing, long-term/short-term exposition - systemic effects)*

Predicted No-Effect Concentration

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 5

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

(PNEC):

Decamethylcyclopentasiloxane (541-02-6):

Fresh water: 0.0012 mg/l

Sea water: 0.00012 mg/l

Fresh water sediment: 2.4 mg/kg

Sea water sediment: 0.24 mg/kg

Soil: 1.1 mg/kg

Sewage treatment system (STP): > 10 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Personal Protection

General protective measures:

Wear adequate protective clothing.

Do not inhale dust. Do not eat, drink or smoke while working.

Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A-P.

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

The glove material must be sufficiently impermeable and resistant against the product.

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing (flame-proof, antistatic).

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: colorless

Odor: odorless

Odor threshold: No information available.

pH-Value: not available

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

87081 Cyclomethicone D5

Page 6

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

<i>Melting temperature:</i>	<i>not available</i>
<i>Boiling temperature:</i>	211°C
<i>Flash point:</i>	77°C
<i>Evaporation rate:</i>	< 1
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	13.21 Vol.%
<i>Lower explosion limit:</i>	0.45 Vol.%
<i>Vapor pressure:</i>	0.15 hPa
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	0.95 g/cm ³
<i>Solubility in water:</i>	<i>No data available</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	392°C
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	3.8 mm ² /s (25°C)
<i>Explosive properties:</i>	<i>not explosive</i>
<i>Oxidizing properties:</i>	<i>not oxidizing</i>
<i>Bulk density:</i>	

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic
Burning class:
Solvent content:
Solid content:
Particle size:
Other information:

10. Stability and Reactivity

10.1. Reactivity

Not classified as aggressive.

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 7

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Flammable liquid.

Vapors in combination with air can form an explosive compound.

Reacts with strong oxidants.

Formation of hazardous decomposition products possible at increased temperatures.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

Formaldehyde.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

> 24.134 mg/kg (rat)

Decamethylcyclopentasiloxane: LD50: > 24.134 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

8.67 (4h; rat)

Decamethylcyclopentasiloxane: LD50: 8.67 mg/kg (4h; rat)

Primary effects

Irritant effect on skin:

No information available

Irritant effect on eyes:

No information available.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No relevant data found.

Mutagenicity:

Decamethylcyclopentasiloxane:

In vitro genetic-toxicity: Ames-Test negative

In vivo genetic-toxicity: no mutagenic effects

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 8

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

Reproductive toxicity:

Decamethylcyclopentasiloxane:
No reproductive toxicity expected.
Not considered to be toxic to reproduction.

Cancerogenity:

No cancerogenic effect (in animal studies).

Teratogenicity:

Decamethylcyclopentasiloxane:
Did not show any teratogenic effects in animal studies.

Specific target organ toxicity (STOT):

Decamethylcyclopentasiloxane:
Single exposure: no organospecific toxicity expected.
Repeated exposure: no organospecific toxicity expected.

Additional toxicological information:

Decamethylcyclopentasiloxane: Results from a 2 year repeated vapor inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

12. Ecological Information

12.1. Aquatic Toxicity

Decamethylcyclopentasiloxane:

Fish toxicity:

NOEC (Chronic toxicity): 0.014 mg/l (Oncorhynchus mykiss)

Daphnia toxicity:

Not toxic within the solubility limit.

Bacteria toxicity:

No negative effects.

Algae toxicity:

12.2. Persistency and Degradability

0.14 % (28d); not readily biodegradable (OECD 310)

12.3. Bioaccumulation

Bioconcentration factor (BCF): > 500

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 9

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

radicals is not expected to deposit from the air to water, to land, or to living organisms.

Based on the independent scientific panel of experts, the Canadian Minister of Environment has concluded that "D5 is not entering the environment in a quality or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

12. 6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

According the European Waste Catalogue, the Waste Codes are not product specific, but application specific.

Waste codes should be assigned by the user based on the application for which the product was used.

Uncleaned packaging:

Dispose of according to official local regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Suggested cleaning agent: water.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 10

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Seveso III: does not apply

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15. 3. Further Information

REACH: This mixture contains exclusively components which have been either pre-registered, are exempted from registration or must not be registered according to EC Regulation 1907/2006 (REACH).

Listed in:

EINECS (208-764-9), TSCA (US), AICS (AUS), DSL (CA), ENCS/ISHL, KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ), TSCI (TW)

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone,

next page: 11

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

87081 Cyclomethicone D5

Page 11

Revised edition: 05.01.2017

Version: 3.3

Printed: 14.03.2017

Layer: not regulated / not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.