

Safety Data Sheet



Silicone Gel 840 B

Issue date 06-Jul-2015

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Version 2

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

1.1. Product Identifier

Product name Siliconen Gel 840 B

Pure substance/mixture **Substance*****

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

Recommended Use **Polymer additive*****
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Nedform BV
Hofdwarweg 20
6161DD Gleen, The Netherlands
0031 (0)464106260
info@nedform.com

For further information, please contact

Contact point R&D
E-mail address info@nedform.com

1.4. Emergency telephone number

Emergency telephone 0031-475-560300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Reproductive toxicity	Category 2*** - (H361)***
FLAMMABLE LIQUIDS***	Category 3*** - (H226)***

2.2. Label Elements

Product Identifier

Contains Octamethylcyclotetrasiloxane



Signal Word

WARNING***

hazard statements

H361f - Suspected of damaging fertility***

H226 - Flammable liquid and vapour***

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P281 - Use personal protective equipment as required

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish***

2.3. Other Hazards

No information available

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	weight-%
Dimethylhydrogenpolydimethylsiloxane***	-	70900-21-9	no data available	Flam. Liq. 3 (H226) ***	>=32
Octamethylcyclotetrasiloxane***	209-136-7	556-67-2	no data available	Flam. Liq. 3 (H226) Repr. 2 (H361f) Aquatic Chronic 4 (H413)***	1-5

Full text of H- and EUH-phrases: see section 16**SECTION 4: First aid measures****4.1. Description of first aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).***

inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.***

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If symptoms persist, call a physician.***

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.***

Ingestion

Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.***

Self-protection of the first aider

Remove all sources of ignition. Use personal protective equipment as required.***

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians

Keep victim warm and quiet. Treat symptomatically.***

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk. Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.***

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Vapors may form explosive mixtures with air Vapors may travel to source of ignition and flash back Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) Vapor explosion hazard indoors, outdoors or in sewers Runoff to sewer may create fire or explosion hazard Keep product and empty container away from heat and sources of ignition Risk of ignition***

Hazardous combustion productsCarbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not allow run-off from fire-fighting to enter drains or water courses.***

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. Special danger of slipping by leaking/spilling product. Do not breathe gas/fumes/vapour/spray.***

Water spray may reduce vapor; but may not prevent ignition in closed spaces.***

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.***

6.3. Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.***

Methods for cleaning up

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take precautionary measures against static discharges. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.***

6.4. Reference to other sections

See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not breathe gas/fumes/vapour/spray. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.***

General hygiene considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.***

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in an area equipped with sprinklers. Ensure adequate ventilation. Keep only in original container. Do not allow to enter into soil/subsoil. Restrict access to stockrooms. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).***

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Eyewash stations.***

Personal Protective Equipment

Eye/face Protection

Tight sealing safety goggles. Face protection shield.***

Hand protection

Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.***

Skin and Body Protection

Antistatic footwear. Wear fire/flame resistant/retardant clothing. Apron. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.*** Gloves must conform to standard EN 374***

Respiratory protection

Respiratory protection necessary at: insufficient ventilation. exposure limit overshoot. insufficient exhaust. Handling larger quantities. Use. ∴ Positive Pressure Self-Contained Breathing Apparatus (SCBA). /. Filtering device (full mask or mouthpiece) with filter.*** ABEK1/ ABEK2.***

Recommended Filter type:
Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State

Liquid***

appearance

No information available

color

Colorless***

Odour

characteristic***

odor threshold

No information available

Property
Values
Remarks • Method
pH

No information available

Melting point/freezing point

No information available

Boiling point / boiling range

No information available

Flash Point

approx.*** 28*** °C*** /*** 82*** °F***

Evaporation Rate

No information available

flammability (solid, gas)

No information available

Flammability Limit in Air
Upper flammability limit:

no data available

Lower flammability limit:

no data available

vapour pressure

no data available

<*** 1000.0*** hPa***

@ 20° C

@ 50°C***

Vapor Density

No information available

Specific gravity

approx.*** 0.920*** g/cm3***

@ 20°C***

Water solubility

@ 20° C

solubility(ies)

No information available

Partition coefficient

No information available

Autoignition Temperature

No information available

decomposition temperature

No information available

Kinematic viscosity

no data available

@ 40 °C

Dynamic viscosity

no data available

@ 40 °C

approx.*** 5.0*** mPa s***

@ 25°C***

Explosive properties

No information available

Oxidizing properties

No information available

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

no data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Can react with strong oxidising agents. Hydrogen is liberated on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air.***

10.4. Conditions to avoid

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).***

10.5. Incompatible materials

Incompatible with oxidizing agents. Acids. Bases.

10.6. Hazardous decomposition products

If this product is heated to > 150 °C, trace quantities of formaldehyde may be released, and adequate ventilation is required.***

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

inhalation	no data available.
Eye Contact	no data available.
Skin contact	no data available.
Ingestion	no data available.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.***

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octamethylcyclotetrasiloxane***	> 5000 mg/kg (Rat)	> 2400 mg/kg (Rabbit)	> 12 mg/l (Rat 4h)

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

sensitization No information available.

Germ Cell Mutagenicity No information available.

carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

SECTION 12: Ecological information

12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment***

Product Information

Acute (short-term) algae toxicity

EC50	No information available
EC0	No information available
IC50	No information available
IC0	No information available
ErC50	No information available
EbC50	No information available

Acute (short-term) fish toxicity

LC50	No information available
LC0	No information available
EC50	No information available
EC0	No information available

Acute (short-term) aquatic invertebrate toxicity

EC50	No information available
EC0	No information available

Chronic (long-term) algae toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) fish toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC	No information available
LOEC	No information available

Chemical name	Algae/aquatic plants	Fish	Crustacea
Octamethylcyclotetrasiloxane***	EC50: > 2000 mg/l (96h)	1000: 96 h Lepomis macrochirus mg/L LC50 500: 96 h Brachydanio rerio mg/L LC50	25.2: 24 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Product Information

biodegradation	No information available
BOD	No information available
ThCO2	No information available

DOC No information available

12.3. Bioaccumulative potential

Product Information

Bioaccumulation (factor) No information available

Chemical name	Partition coefficient
Octamethylcyclotetrasiloxane***	5.1

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

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

SECTION 14: Transport information

ADR

14.1. UN number	UN1993***
14.2. UN proper shipping name	Flammable liquid, n.o.s.***
14.3. Transport hazard class(es)	3***
Labels	-
14.4. Packing group	III***
Description	UN1993, Flammable liquid, n.o.s. (Dimethylhydrogen polydimethylsiloxane), 3, III, (D/E)***
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	F1***
Tunnel restriction code	(D/E)***
Limited quantity (LQ)	5 L***
ADR Hazard Id (Kemmler Number)	30***

Note:

-

RID

14.1. UN number

UN1993***

14.2. UN proper shipping name

Flammable liquid, n.o.s.***

14.3. Transport hazard class(es)

3***

Labels

-

14.4. Packing group

III***

Description

UN1993, Flammable liquid, n.o.s. (Dimethylhydrogen polydimethylsiloxane), 3, III***

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None

Classification code

F1***

Limited quantity (LQ)

5 L***

Note:

-

IMDG

14.1. UN number

UN1993***

14.2. UN proper shipping name

Flammable liquid, n.o.s.***

14.3. Transport hazard class(es)

3***

Subsidiary hazard class

-

14.4. Packing group

III***

Description

UN1993, Flammable liquid, n.o.s. (Dimethylhydrogen polydimethylsiloxane), 3, III, (55°C c.c.)***

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None

EmS-No

F-E, S-E***

Limited quantity (LQ)

5 L***

Note:

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available

IATA

14.1. UN number

UN1993***

14.2. UN proper shipping name

Flammable liquid, n.o.s.***

14.3. Transport hazard class(es)

3***

Subsidiary hazard class

-

14.4. Packing group

III***

Description

UN1993, Flammable liquid, n.o.s. (Dimethylhydrogen polydimethylsiloxane), 3, III***

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None

ERG Code

3L***

Limited quantity (LQ)

10 L***

Note:

-

SECTION 15: Regulatory information

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

National Regulations

See section 8 for national exposure control parameters

Storage class

3***

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists TSCA (United States);, Europe (EINECS/ELINCS/NLP).***

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapour

H361f - Suspected of damaging fertility

H413 - May cause long lasting harmful effects to aquatic life***

Revision note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet