

Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

1.1 Product identifier

Product name: SILWET L-77

Chemical name Polyalkyleneoxide Modified Heptamethyltrisiloxane

INDEX No. Not applicable CAS-No. 27306-78-1 EC No. 608-078-3 REACH Registration No. Polymer

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

Identified uses: Industrial and Agricultural Use. **Uses advised against:** Not for aerosol use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials GmbH Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

Telephone : General information

00800.4321.1000 (Customer Service Centre)

1.4

number

Emergency telephone

Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Inhalation - vapor) Category 4 H332: Harmful if inhaled.

Serious eye irritation Category 2 H319: Causes serious eye irritation.

Environmental Hazards

Chronic hazards to the aquatic Category 2 H411: Toxic to aquatic life with long lasting

environment effects.

2.2 Label Elements

Contains: Polyalkyleneoxide modified Heptamethyltrisiloxane

Polyalkyleneoxide Modified Heptamethyltrisiloxane

SDS GB 1/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77



Signal Words: Warning

Hazard Statement(s): H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash thoroughly after handling. P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P337+P313: If eye irritation persists: Get medical advice/attention.

P391: Collect spillage.

Disposal: P501: 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.

Unknown toxicity - Health

Acute toxicity, inhalation, vapor 0 % Acute toxicity, inhalation, dust 0 %

or mist

Unknown toxicity - Environment

Acute hazards to the aquatic < 0,0001 %

environment

Chronic hazards to the aquatic < 0,0001 %

environment

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Polyalkyleneoxide Modified Heptamethyltrisiloxane

3.1 Substances

General information: No data available.

Chemical name Polyalkyleneoxide Modified Heptamethyltrisiloxane

INDEX No.: Not applicable CAS-No.: 27306-78-1 EC No.: 608-078-3

SDS GB 2/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

REACH Registration No.: Polymer

M-Factor: No data available.

Chemical name	Concentration	CAS-No.		REACH Registration No.	M-Factor:	Notes
Polyalkyleneoxid e modified Heptamethyltrisil oxane	50 - <100%	27306-78-1	608-078-3	Polymer	No data available.	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: After inhalation of aerosol/mist seek medical advice immediately. Move the

exposed person to fresh air at once. If breathing is difficult, give oxygen.

Call a physician or poison control center immediately.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if symptoms persist.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical attention if symptoms persist. Wash contaminated clothing before reuse. Destroy or

thoroughly clean contaminated shoes.

Ingestion: Do not induce vomiting. If conscious, drink plenty of water. Call a physician

or poison control center immediately.

4.2 Most important symptoms and effects, both acute and

delayed:

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Do not use water jet as an extinguisher, as this will spread the fire. Use

water spray to keep fire-exposed containers cool.

5.1 Extinguishing media

Suitable extinguishing

media:

Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.2 Special hazards arising

from the substance or mixture:

installe of

SDS GB 3/13

[#] This substance has workplace exposure limit(s).



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

5.3 Advice for firefighters

Special fire fighting procedures:

All equipment used when handling the product must be grounded.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment. Use only in well-ventilated areas.

6.2 Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

6.3 Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Shovel up and place in a

container for salvage or disposal.

6.4 Reference to other

sections:

Remove sources of ignition. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Provide adequate ventilation. Avoid inhalation of dust

and vapors.

Storage conditions: No data available.

7.2 Conditions for safe storage,

including any incompatibilities:

Keep away from sources of ignition - No smoking. Use original container or

packaging of similar material of construction

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values		Source	
2-Propanol	TWA	400 ppm	999 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),	
				as amended (12 2011)	
	STEL	500 ppm	1.250 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),	
			-	as amended (12 2011)	

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls:

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or

in covered equipment.

Individual protection measures, such as personal protective equipment

SDS_GB 4/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

General information: Use only in well-ventilated areas. Do not eat, drink or smoke when using

the product. Wash hands after handling. Practice good housekeeping.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: Chemical resistant gloves

Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email:

vertrieb@kcl.de). Material: 730 Camatril

Minimum break through time: 480 min

Glove thickness: 0,4 mm Guideline: EN 374

Other: Safety shoes Wear suitable protective clothing.

Respiratory Protection: Respiratory protection complying with EN 143. Dust filter P2 (for fine dust).

Hygiene measures: Do not breathe vapour/aerosol. When using do not eat, drink or smoke. Use

only with adequate ventilation. Wash thoroughly after handling.

Environmental exposure

controls:

No release to wastewater from process as such, wastewater emissions limited to release generated from final equipment cleaning step using water

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Pale yellow
Odor: Polyether

Odor Threshold: No data available.

pH: 5,4 Freezing point: 5,4

Boiling Point: > 150 °C (1.013 hPa) Copolymer

Flash Point: 166 °C (Closed Cup) **Evaporation Rate:** < 1 (n-Butyl acetate=1) Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: < 1,33 hPa (20 °C) Relative vapor density: Heavier than air Density: 1,0070 g/cm3 (25 °C)

Relative density: No data available.

Solubility(ies)

Solubility in Water: Dispersible

Solubility (other):No data available.

Partition coefficient (n-octanol/water) Log

Pow: > 3,29 ; pH 5 > 3,28 ; pH 7 > 3,60 ; pH 9

Autoignition Temperature: 334 °C

SDS_GB 5/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

Decomposition Temperature: No decomposition if stored and applied as directed.

SADT: No data available.

Viscosity, dynamic: 24 mPa·s

Viscosity, kinematic:No data available.Explosive properties:No data available.Oxidizing properties:No data available.

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

10.4 Conditions to avoid: Keep away from heat, sparks and open flame.

10.5 Incompatible Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition

Products:

In case of fire, gives off (emits): Carbon oxides Oxides of silicon.

Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to

oxidative degradation.

SECTION 11: Toxicological information

General information: Aerosols of this product have a high inhalation toxicity potential. Therefore,

when spraying this product and mixtures thereof with other components, exposure must be completely avoided. The use of respiratory equipment is

mandatory for all spray applications.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): > 2.000 mg/kg Slightly toxic

Specified substance(s)

Polyalkyleneoxide

modified

LD 50 (Rat): > 2.000 mg/kg

Heptamethyltrisiloxane

Dermal

Product: LD 50 (Rat): > 2.000 mg/kg Slightly toxic

Specified substance(s)

Polyalkyleneoxide LD 50 (Rat): > 2.000 mg/kg

SDS_GB 6/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

modified

Heptamethyltrisiloxane

Inhalation

Product: LC50 (Rat, 4 h): 2 mg/l Aerosols

Aerosols: LC50 (Rat, 4 h): > 11,78 mg/l Aerosols, 5% Diluted aqueous

solution

ATEmix13,08 mg/l Vapour

Specified substance(s)

Polyalkyleneoxide LC50 (Rat, 4 h): 2 mg/l modified LC50 (Rat, 4 h): > 11,78 mg/l

Heptamethyltrisiloxane

Repeated dose toxicity

Product: NOAEL (Rat, Oral, 28 d): 150 mg/kg (OECD 422)

Specified substance(s)

Polyalkyleneoxide NOAEL (Rat, Oral): 150 mg/kg

modified

Heptamethyltrisiloxane

Skin Corrosion/Irritation:

Product: (Rabbit): No skin irritation

Specified substance(s)

Polyalkyleneoxide (Rabbit): No skin irritation

modified

Heptamethyltrisiloxane

(Nabbit). No skill lilitation

Serious Eye Damage/Eye

Irritation:

Product: (Rabbit): Strongly irritating.

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

(Rabbit): Strongly irritating.

Respiratory or Skin Sensitization:

Product: (Guinea Pig)Did not cause sensitization on laboratory animals.

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

(Guinea Pig)negative

Germ Cell Mutagenicity

In vitro

Product: Ames-Test: negative (not mutagenic)

Chromosomal aberration: negative (not mutagenic) Mammalian cytogenicity test: negative (not mutagenic)

Specified substance(s)

Polyalkyleneoxide Ames-Test: negative

modified Chinese Hamster Ovary (CHO): negative Heptamethyltrisiloxane Mammalian cytogenicity test: negative

In vivo

Product: No data available.

Specified substance(s)

SDS GB 7/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

Polyalkyleneoxide

modified

Micronucleus test (Mouse): negative

Heptamethyltrisiloxane

Carcinogenicity

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

No data available.

modified Heptamethyltrisiloxane

Reproductive toxicity

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

No data available.

modified

Heptamethyltrisiloxane

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

No data available.

modified

Heptamethyltrisiloxane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

No data available.

modified

Heptamethyltrisiloxane

Aspiration Hazard

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

modified

No data available.

Heptamethyltrisiloxane

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LC50 (Zebra Fish, 96 h): 6,8 mg/l

Specified substance(s)

Polyalkyleneoxide

modified

LC50 (Zebra Fish, 96 h): 6,8 mg/l

Heptamethyltrisiloxane

Aquatic Invertebrates

SDS_GB 8/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

Product: EC50 (Daphnia magna, 48 h): 25 mg/l

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

EC50 (Daphnia similis, 48 h): 25 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

No data available.

Toxicity to Aquatic Plants

Product: EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): 32 mg/l

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

EC50 (Algae, 96 h): 32 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: The product is not readily biodegradable.

Specified substance(s)

Polyalkyleneoxide

modified

Heptamethyltrisiloxane

The product is not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Polyalkyleneoxide

modified

No data available.

Heptamethyltrisiloxane

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Polyalkyleneoxide

No data available.

modified

Heptamethyltrisiloxane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

SDS_GB 9/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

Polvalkyleneoxide modified

Heptamethyltrisiloxane

No data available.

12.5 Results of PBT and vPvB

assessment:

No data available.

Polyalkyleneoxide modified

Heptamethyltrisiloxane

No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: See Section 8 for information on appropriate personal protective

> equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the

around.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Polyalkyleneoxide Modified Heptamethyltrisiloxane)

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9 Hazard No. (ADR): 90 Tunnel restriction code: (-) 14.4 Packing Group: Ш

14.5 Environmental Hazards: Environmentally hazardous

Marine Pollutant Yes

ADN

14.1 UN Number: UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 14.2 UN Proper Shipping Name:

N.O.S.(Polyalkyleneoxide Modified Heptamethyltrisiloxane)

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9 14.4 Packing Group: Ш

14.5 Environmental Hazards: Environmentally hazardous

Marine Pollutant Yes

RID

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.

N.O.S.(Polyalkyleneoxide Modified Heptamethyltrisiloxane)

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9 Ш 14.4 Packing Group:

14.5 Environmental Hazards: Environmentally hazardous

Marine Pollutant Yes

SDS_GB 10/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

IMDG

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Polyalkyleneoxide Modified Heptamethyltrisiloxane)

14.3 Transport Hazard Class(es)

Class: 9
Label(s): 9
EmS No.: F-A, S-F

14.4 Packing Group:

14.5 Environmental Hazards: Environmentally hazardous

Marine Pollutant: Yes

IATA

14.1 UN Number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid,

n.o.s.(Polyalkyleneoxide Modified Heptamethyltrisiloxane)

14.3 Transport Hazard Class(es):

Class: 9
Label(s): 9MI

14.4 Packing Group: III

14.5 Environmental Hazards: Environmentally hazardous

Marine Pollutant: Yes

14.6 Special precautions for user: Keep away from food, drink and animal feeding stuffs.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
2-Propanol	67-63-0	0,1 - 1,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens SDS_GB



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 2012/18/EU (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
2-Propanol	67-63-0	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS: On or in compliance with the Remarks: None.

inventory

Canada DSL Inventory List:

On or in compliance with the R

On or in compliance with the Remarks: None. inventory

EINECS, ELINCS or NLP: Not in compliance with the Remarks: None.

inventory.

Japan (ENCS) List: On or in compliance with the Remarks: None.

inventory

China Inv. Existing Chemical On or in compliance with the Substances: On or in compliance with the Inventory

Korea Existing Chemicals Inv. On or in compliance with the Remarks: None. (KECI): inventory

Canada NDSL Inventory: Not in compliance with the Remarks: None.

inventory.

Philippines PICCS:

On or in compliance with the Remarks: None.

inventory

US TSCA Inventory: On or in compliance with the Remarks: None. inventory

New Zealand Inventory of On or in compliance with the Remarks: None.

Chemicals: inventory
Taiwan Chemical Substance On or in compliance with the Remarks: None.

Inventory: inventory If purchased from Momentive Remarks: None.

Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent

monomers and other

reactants.

SECTION 16: Other information

SDS_GB 12/13



Last revised date: 09.12.2020 Supersedes Date: 26.06.2020

SILWET L-77

Revision Information: Not relevant.

Key literature references and

sources for data:

No data available.

Wording of the H-statements in section 2 and 3

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Acute Tox. 4, H332 Eye Dam. 2, H319 Aquatic Chronic 2, H411

Issue Date: Disclaimer:

09.12.2020

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

®,*, and TM indicate trademarks owned by or licensed to Momentive.

SDS_GB 13/13