

## Adisil transparent - component A

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

- 1.1 Product identifier:**  
**Commercial product name:** Adisil transparent – component A  
Duplicating silicone
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Identified uses:** Moulding diverse objects.  
**Uses advised against:** None known.
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer/Supplier:** SILADENT Dr. Böhme & Schöps GmbH  
**Street / mailbox:** Im Klei 26  
**Country code. / postal code / city:** D - 38644 Goslar  
**Phone:** Tel.: +49 (0) 53 21 / 37 79 – 0  
**Fax:** Fax: +49 (0) 53 21 / 38 96 32  
**E-mail / Website:** [info@siladent.de](mailto:info@siladent.de) - [www.siladent.de](http://www.siladent.de)
- 1.4 Further information obtainable from:**  
**SILADENT Dr. Böhme & Schöps GmbH:** +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture:** The product has not been classified as hazardous according to the legislation in force.
- Classification according to Regulation (EC) No 1272/2008 as amended:** Not classified
- 2.2 Label Elements:** Not applicable
- Hazard summary:**
- Physical Hazards:** No specific recommendations.
- Health Hazards:**
- Inhalation:** No specific symptoms noted.
- Eye contact:** No specific symptoms noted.
- Skin Contact:** No specific symptoms noted.
- Ingestion:** No specific symptoms noted.
- Other Health Effects:** No other information noted.
- Environmental hazards:** Not regarded as dangerous for the environment.
- 2.3 Other hazards:** Meets PBT (persistent/bioaccumulative/toxic) criteria  
Meets vPvB criteria

### SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**  
**General information:** Mixture of organosiloxanes, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Decamethylcyclotri- siloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367- 43-0003	No data available.	vPvB

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asiloxane						
Dodecamethylcyclotetrasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0002	No data available.	vPvB
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0002	No data available.	# PBT vPvB

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

# This substance has workplace exposure limit(s).

### Classification

Chemical name	Classification	Notes
Decamethylcyclopentasiloxane	None known.	No data available.
Dodecamethylcyclohexasiloxane	None known.	No data available.
Octamethylcyclotetrasiloxane	Flam. Liq. 3 H226; Repr. 2 H361f; Aquatic Chronic 4 H413;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

### SECTION 4: First aid measures

#### General:

Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

#### 4.1 Description of first aid measures:

##### Inhalation:

Not relevant.

##### Skin Contact:

Remove contaminated clothing and shoes. Wash with soap and water.

##### Eye contact:

In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

##### Ingestion:

Do not induce vomiting. Rinse mouth thoroughly.

#### 4.2 Most important symptoms and effects, both acute and delayed:

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

##### Hazards:

No specific recommendations.

##### Treatment:

No specific recommendations.

### SECTION 5: Firefighting measures

#### General Fire Hazards:

No specific recommendations.

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

Extinguish with foam, carbon dioxide or dry powder. Water spray.

##### Unsuitable extinguishing media:

None known.

#### 5.2 Special hazards arising from the substance or mixture:

None known. For further information, refer to section 10: "Stability and Reactivity".

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### 5.3 Advice for firefighters:

#### Special firefighting procedures:

Water spray should be used to cool containers.

#### Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### 6.1.1 For non-emergency personnel:

Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

#### 6.1.2 For emergency responders:

No data available.

### 6.2 Environmental Precautions:

Collect spillage. Do not discharge into drains, water courses or onto the ground.

### 6.3 Methods and material for containment and cleaning up:

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent (cf.: § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.

### 6.4 Reference to other sections:

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No specific precautions.

### 7.2 Conditions for safe storage, including any incompatibilities:

No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents. Suitable containers: polyethylene. Plastic lined steel drum.

#### Lagerungshinweise:

Es liegen keine Daten vor.

#### Storage Class:

No data available.

### 7.3 Specific end use(s):

No specific recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters: Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	VME	10 ppm 120 mg/m3	

### 8.2 Exposure controls: Appropriate engineering controls: Individual protection measures, such as personal protective equipment

No specific precautions.

#### General information:

No specific precautions.

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<b>Eye/face protection:</b>	Safety Glasses
<b>Skin protection:</b>	
<b>Hand Protection:</b>	Material: Nitrile. Material: Polyvinyl chloride (PVC). Material: Rubber or plastic.
<b>Other:</b>	No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
<b>Respiratory Protection:</b>	No specific precautions.
<b>Hygiene measures:</b>	Provide eyewash station and safety shower.
<b>Environmental Controls:</b>	No data available.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b>	
<b>Physical state:</b>	Liquid
<b>Form:</b>	Viscous
<b>Colour:</b>	Transparent
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No data available.
<b>pH:</b>	Not applicable.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	> 200 °C (Closed cup according to method ASTM D-56.)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%)—:</b>	
<b>Flammability Limit - Lower (%)—:</b>	
<b>Vapour pressure:</b>	< 0,1 hPa (20 °C)
<b>Vapour density (air=1):</b>	No data available.
<b>Density:</b>	Approximate 1 kg/dm <sup>3</sup> (20 °C)
<b>Solubility(ies):</b>	
<b>Solubility in Water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Diethylether: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Acetone: Very slightly soluble. Ethanol: Very slightly soluble.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition Temperature:</b>	> 400 °C
<b>Decomposition Temperature:</b>	> 200 °C
<b>Viscosity:</b>	11 000 mm <sup>2</sup> /s (20°C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidising. (evaluation by structure-activity relationship)
<b>9.2 Other information:</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Not relevant.
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<b>10.2 Chemical Stability:</b>	Stable
<b>10.3 Possibility of Hazardous Reactions:</b>	Not known.
<b>10.4 Conditions to Avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica.

### SECTION 11: Toxicological information

<b>Information on likely routes of exposure</b>	
<b>Inhalation:</b>	No effects expected (assessment based on ingredients).
<b>Ingestion:</b>	No effects expected (assessment based on ingredients).
<b>Skin Contact:</b>	No effects expected (assessment based on ingredients).
<b>Eye contact:</b>	No effects expected (assessment based on ingredients).
<b>11.1 Information on toxicological effects:</b>	
<b>Acute Toxicity:</b>	
<b>Oral:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients). Not classified for acute toxicity based on available data.
<b>Dermal:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients). Not classified for acute toxicity based on available data.
<b>Inhalation:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Repeated Dose Toxicity:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Skin Corrosion/Irritation:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Serious Eye Damage/Eye Irritation:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Respiratory or Skin Sensitization:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Germ Cell Mutagenicity:</b>	
<b>In vitro:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>In vivo:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).
<b>Carcinogenicity:</b>	
<b>Product:</b>	No effects expected (assessment based on ingredients).

**Adisil transparent - component A****Reproductive Toxicity:****Product:****Specified substance(s):**

Dodecamethylcyclohexasiloxane:

Octamethylcyclotetrasiloxane:

Composition/information on ingredients

Based on available data, the classification criteria are not met.

Suspected of damaging fertility.

**Reproductive toxicity (Fertility):****Product:****Specified substance(s):**

Decamethylcyclopentasiloxane:

Composition/information on ingredients

Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416

Dodecamethylcyclohexasiloxane:

Reproduction/developmental toxicity screening test. Rat (Gavage (Oral)): NOAEL (parent):  $\geq 1\,000$  mg/kg NOAEL (F1): $\geq 1\,000$  mg/kg NOAEL (F2): Method: OECD 422

Octamethylcyclotetrasiloxane:

Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416

**Developmental toxicity (Teratogenicity):****Product:****Specified substance(s):**

Dodecamethylcyclohexasiloxane:

Composition/information on ingredients

Rabbit NOAEL (terato):  $\geq 1\,000$  mg/kg NOAEL (mater):  $\geq 1\,000$  mg/kg Method: OECD 414 Rat NOAEL (terato):  $\geq 1\,000$  mg/kg NOAEL (mater):  $\geq 1\,000$  mg/kg Method: OECD 414

Octamethylcyclotetrasiloxane:

Rat (Inhalation): NOAEL (terato):  $> 6,066$  mg/l NOAEL (mater): 3,640 mg/l Method: OECD 414

**Specific Target Organ Toxicity - Single****Exposure:****Product:**

No effects expected (assessment based on ingredients).

**Specific Target Organ Toxicity - Repeated****Exposure:****Product:**

No effects expected (assessment based on ingredients).

**Aspiration Hazard:****Product:**

No effects expected (assessment based on ingredients).

**SECTION 12: Ecological information****12.1 Toxicity:****Acute toxicity:****Fish:****Product:****Specified substance(s):**

Octamethylcyclotetrasiloxane:

Composition/information on ingredients

LC 50 (Oncorhynchus mykiss, 96 h):  $\geq 0,022$  mg/l**Aquatic Invertebrates:****Product:****Specified substance(s):**

Octamethylcyclotetrasiloxane:

Composition/information on ingredients

EC 50 (Water flea (Daphnia magna), 48 h):  $> 0,015$  mg/l

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Composition/information on ingredients

Decamethylcyclopentasiloxane:

NOEC (Oncorhynchus mykiss, 90 d):  $\geq 0,014$  mg/l

Octamethylcyclotetrasiloxane:

NOEC (Oncorhynchus mykiss, 93 d):  $\geq 0,0044$  mg/l**Aquatic Invertebrates:****Product:****Specified substance(s):**

Composition/information on ingredients

Dodecamethylcyclohexasiloxane:

NOEC (Water flea (Daphnia magna), 21 d):  $\geq 0,0046$  mg/l

Octamethylcyclotetrasiloxane:

NOEC (Water flea (Daphnia magna), 21 d): 0,015 mg/l

**Toxicity to Aquatic Plants:****Product:****Specified substance(s):**

Composition/information on ingredients

Dodecamethylcyclohexasiloxane:

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h):  $\geq 0,002$  mg/lEC 50 (Algae (Pseudokirchneriella subcapitata), 72 h):  $> 0,002$  mg/l

Octamethylcyclotetrasiloxane:

EC 50 (Green algae (Selenastrum capricornutum), 96 h):  $> 0,022$  mg/l**12.2 Persistence and Degradability:****Biodegradation:****Product:****Specified substance(s):**

Composition/information on ingredients

Decamethylcyclopentasiloxane:

0,14 % (28 d) The product is not readily biodegradable.

Dodecamethylcyclohexasiloxane:

4,5 % (28 d, OECD 310) The product is not readily biodegradable.

Octamethylcyclotetrasiloxane:

3,7 % (29 d) The product is not considered to be readily biodegradable.

**BOD/COD Ratio:****Product:**

No data available.

**12.3 Bioaccumulative Potential:****Product:****Specified substance(s):**

Composition/information on ingredients

Decamethylcyclopentasiloxane:

Fathead Minnow, Bioconcentration Factor (BCF): 7 060

Dodecamethylcyclohexasiloxane:

Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305) Has the potential to bioaccumulate.

Octamethylcyclotetrasiloxane:

Fathead Minnow, Bioconcentration Factor (BCF): 12 400

**12.4 Mobility in Soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

Composition/information on ingredients

Decamethylcyclopentasiloxane

Meets vPvB criteria

REACH (1907/2006) Ax XIII

Dodecamethylcyclohexasiloxane

Meets vPvB criteria

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Octamethylcyclotetrasiloxane

Meets PBT  
(persistent/bioaccumulative/  
toxic) criteria,  
Meets vPvB criteria

REACH (1907/2006) Ax XIII

### 12.6 Other Adverse Effects:

None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### General information:

The user's attention is drawn to the possible existence of local regulations regarding disposal.

#### Disposal methods:

#### Disposal instructions:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

#### Contaminated Packaging:

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

## SECTION 14: Transport information

This material is not subject to transport regulations.

#### Other information:

No special precautions.

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

Not applicable.

## SECTION 15: Regulatory information

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

#### Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None.

#### National Regulations:

#### Wassergefährdungs-klasse (WGK):

#### Water Hazard Class (WGK):

WGK 2: wassergefährdend.

WGK 2: significantly water-endangering

### 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

#### Inventory Status

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

Not in compliance with the inventory.

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory



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## SECTION 16: Other information

### Revision Information:

Not relevant.

### References

PBT

PBT: persistent, bioaccumulative and toxic substance.

vPvB

vPvB: very persistent and very bioaccumulative substance.

### Key abbreviations or acronyms used:

No data available.

### Key literature references and sources for data:

No data available.

### Wording of H-statements in section 2 and 3:

H226

Flammable liquid and vapour.

H361f

Suspected of damaging fertility.

H413

May cause long lasting harmful effects to aquatic life

### Training information:

No data available.

### Issue Date:

12.11.2018

### Disclaimer:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.