

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

### SECTION 1. IDENTIFICATION

Product name : DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige

Product code : 02694301

#### Manufacturer or supplier's details

Company Identification : THE DOW CHEMICAL COMPANY  
2030 DOW CENTER  
MIDLAND MI 48674-0000  
UNITED STATES

Telephone : 800-258-2436

24-Hour Emergency Contact : Chemtrec +1 800-424-9300

Local Emergency Number : 800-424-9300

E-mail address : SDSQuestion@dow.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

Precautionary Statements : **Prevention:**  
P271 Use only outdoors or in a well-ventilated area.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Silicone  
Sealant

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	$\geq 8 - \leq 9$
Carbon black	1333-86-4	$\leq 0.64$
Titanium dioxide	13463-67-7	$\leq$

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0      Revision Date: 10/16/2017      SDS Number: 973973-00012      Date of last issue: 03/23/2017  
Date of first issue: 01/12/2015

		0.6208
Cobalt titanite green spinel	68186-85-6	<= 0.32

### SECTION 4. FIRST AID MEASURES

If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	: None known.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Treat symptomatically and supportively.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	: Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: Carbon oxides Silicon oxides Formaldehyde
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Follow safe handling advice and personal protective equipment recommendations.  |
| Environmental precautions   | : Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.   |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material.<br>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.<br>Clean up remaining materials from spill with suitable absorbent.<br>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

### SECTION 7. HANDLING AND STORAGE

- |                             |   |
|-----------------------------|---|
| Technical measures          | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.   |
| Local/Total ventilation     | : Use only with adequate ventilation.   |
| Advice on safe handling     | : Avoid prolonged or repeated contact with skin.<br>Handle in accordance with good industrial hygiene and safety practice.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : Keep in properly labeled containers.<br>Store in accordance with the particular national regulations.   |
| Materials to avoid          | : Do not store with the following product types:<br>Strong oxidizing agents   |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0      Revision Date: 10/16/2017      SDS Number: 973973-00012      Date of last issue: 03/23/2017  
Date of first issue: 01/12/2015

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL
Carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	3 mg/m <sup>3</sup>	ACGIH
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
Cobalt titanite green spinel	68186-85-6	TWA	0.02 mg/m <sup>3</sup> (Cobalt)	ACGIH
		TWA	0.015 mg/m <sup>3</sup> (Nickel)	NIOSH REL
		TWA	1 mg/m <sup>3</sup> (Nickel)	OSHA Z-1
		TWA (Inhalable fraction)	0.2 mg/m <sup>3</sup> (Nickel)	ACGIH

**These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.**

- || Silicon dioxide
- || Carbon black
- || Titanium dioxide
- || Cobalt titanite green spinel

### Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Cobalt titanite green spinel	68186-85-6	Cobalt (Cobalt)	Urine	End of shift at end of work-week	15 µg/l	ACGIH BEI

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Ensure adequate ventilation, especially in confined areas.

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

---

Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m<sup>3</sup> - respirable particles, 10 mg/m<sup>3</sup> - inhalable particles.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment: Safety glasses

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Color	: in accordance with the product description
Odor	: Acetic acid
Odor Threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Self-ignition	:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	No data available
Relative density	:	1.04
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Acetic acid is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

### Hazardous decomposition products

Thermal decomposition : Formaldehyde

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Skin contact

Ingestion

Eye contact

### Acute toxicity

Not classified based on available information.

### Ingredients:

#### Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Information taken from reference works and the literature.

#### Carbon black:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.0046 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

---

### **Titanium dioxide:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity

### **Cobalt titanite green spinel:**

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials
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### **Skin corrosion/irritation**

Not classified based on available information.

### **Ingredients:**

#### **Silicon dioxide:**

Result: No skin irritation
Remarks: Information taken from reference works and the literature.

#### **Carbon black:**

Species: Rabbit
Result: No skin irritation

#### **Titanium dioxide:**

Species: Rabbit
Result: No skin irritation

#### **Cobalt titanite green spinel:**

Species: Rabbit
Result: No skin irritation
Remarks: Based on data from similar materials

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Ingredients:**

#### **Silicon dioxide:**

Result: No eye irritation
Remarks: Information taken from reference works and the literature.

#### **Carbon black:**

Species: Rabbit
Result: No eye irritation



# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

---

### **Titanium dioxide:**

Species: Rabbit  
Result: No eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### **Ingredients:**

#### **Silicon dioxide:**

Assessment: Does not cause skin sensitization.  
Test Type: Skin: test type not specified  
Species: Guinea pig  
Result: negative  
Remarks: Information taken from reference works and the literature.

#### **Carbon black:**

Test Type: Buehler Test  
Routes of exposure: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative

#### **Titanium dioxide:**

Test Type: Local lymph node assay (LLNA)  
Routes of exposure: Skin contact  
Species: Mouse  
Result: negative

#### **Cobalt titanite green spinel:**

Assessment: Probability or evidence of low to moderate skin sensitization rate in humans  
Remarks: Based on data from similar materials

### **Germ cell mutagenicity**

Not classified based on available information.

### **Ingredients:**

#### **Silicon dioxide:**

Genotoxicity in vitro	: Result: negative Remarks: Information taken from reference works and the literature.
Genotoxicity in vivo	: Application Route: Ingestion Result: negative

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### Carbon black:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

### Titanium dioxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

### Cobalt titanite green spinel:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

### Ingredients:

#### Titanium dioxide:

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 24 Months  
Method: OECD Test Guideline 453  
Result: positive  
Remarks: The mechanism or mode of action may not be relevant in humans.  
These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

#### Cobalt titanite green spinel:

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 Years

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

Result: positive  
Remarks: Based on data from similar materials  
These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies (inhalation)

### IARC

Group 1: Carcinogenic to humans

Cobalt titanite green spinel 68186-85-6

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

Titanium dioxide 13463-67-7

### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### NTP

Known to be human carcinogen

Cobalt titanite green spinel 68186-85-6

### Reproductive toxicity

Not classified based on available information.

### Ingredients:

#### Cobalt titanite green spinel:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
3.0	10/16/2017	973973-00012	Date of first issue: 01/12/2015

---

### **Ingredients:**

#### **Carbon black:**

Routes of exposure: inhalation (dust/mist/fume)  
Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

#### **Cobalt titanite green spinel:**

Routes of exposure: inhalation (dust/mist/fume)  
Target Organs: Lungs  
Assessment: Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.  
Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

### **Repeated dose toxicity**

### **Ingredients:**

#### **Carbon black:**

Species: Rat  
NOAEL: 1 mg/m<sup>3</sup>  
LOAEL: 7 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 90 Days  
Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

#### **Titanium dioxide:**

Species: Rat  
NOAEL: 24,000 mg/kg  
Application Route: Ingestion  
Exposure time: 28 Days

Species: Rat  
NOAEL: 10 mg/m<sup>3</sup>  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 y  
Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

#### **Cobalt titanite green spinel:**

Species: Mouse  
LOAEL: 0.00125 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 y  
Remarks: Based on data from similar materials  
These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

##### **Carbon black:**

Toxicity to fish	: LC0 (Danio rerio (zebra fish)): 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 5,600 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
Toxicity to algae	: NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

##### **Titanium dioxide:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

##### **Cobalt titanite green spinel:**

Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h Method: DIN 38412 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae	: ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

	EC10 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Toxicity to microorganisms	: EC50: 33 mg/l Exposure time: 30 min Method: ISO 8192 Remarks: Based on data from similar materials

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Resource Conservation and Recovery Act (RCRA) : This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0      Revision Date: 10/16/2017      SDS Number: 973973-00012      Date of last issue: 03/23/2017  
Date of first issue: 01/12/2015

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic anhydride	108-24-7	5000	*
Acetic acid	64-19-7	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Cobalt titanite green      68186-85-6      <= 0.32 %  
spinel

### US State Regulations

#### Pennsylvania Right To Know

Dimethyl siloxane, hydroxy-terminated	70131-67-8
Silicon dioxide	7631-86-9
Cobalt titanite green spinel	68186-85-6
C.I. Pigment Yellow 119	68187-51-9
Aluminium	7429-90-5
Trizinc bis(orthophosphate)	7779-90-0
Acetic acid	64-19-7
Acetic anhydride	108-24-7

#### California Prop. 65

WARNING: This product can expose you to chemicals including Cobalt titanite green spinel, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California Permissible Exposure Limits for Chemical Contaminants

Silicon dioxide      7631-86-9

The ingredients of this product are reported in the following inventories:

# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version 3.0	Revision Date: 10/16/2017	SDS Number: 973973-00012	Date of last issue: 03/23/2017 Date of first issue: 01/12/2015
----------------	------------------------------	-----------------------------	---

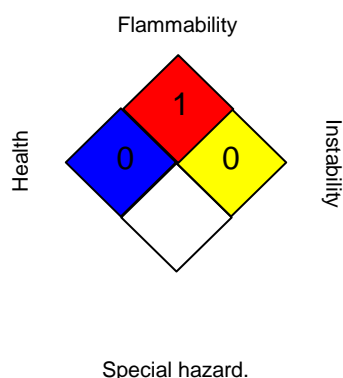
TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts  
ACGIH / TWA : 8-hour, time-weighted average  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
OSHA Z-1 / TWA : 8-hour time weighted average  
OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized



# SAFETY DATA SHEET

## DOWSIL™ 999A Silicone Glazing Sealant, Sand Beige



Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2017
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System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 10/16/2017

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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