



SAFETY DATA SHEET (SDS)
BITESCAN 85

1. IDENTIFICATION

Product Name: BiteScan 85
Other Names or Codes: 3402003
Use: Scannable vinyl polysiloxane dental material
Supplier Name: DenPlus Inc.
Address: 333-M Chemin du Tremblay
Boucherville, QC, Canada, J4B 7M1
Phone Number for Information: 450.641.1330
Emergency Phone Number: 613.996.6666
Anti-Poison Center of Quebec 1.800.463.5060

2. HAZARDS IDENTIFICATION

2.1 Classification

Skin sensitization – Category 1 H317 May cause an allergic skin reaction
Serious eye damage/eye irritation - Category 2B H320 Cause eye irritation

2.2 Label elements



Signal word: Warning

Hazard statements: H317 May cause an allergic skin reaction
H320 Cause eye irritation

Precautionary statements: P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container to hazardous waste in accordance with local, state or national legislation. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of flammable organics.

3. INFORMATION ON INGREDIENTS

Mixture of addition-curing silicones.

| Hazardous ingredients | CAS | Concentration range (by weight) |
|---------------------------------------|------------|---------------------------------|
| Polydimethylsiloxane vinyl terminated | 68083-19-2 | 15 to 40 % |
| Dimethylsiloxane copolymer | 68037-59-2 | 5 to 10 % |
| Quartz silica | 14808-60-7 | 30 to 60 % |
| Polysiloxane | 27306-78-1 | 1 to 5 % |

4. FIRST-AID MEASURES

4.1 Description of first aid measures

| | |
|--------------|---|
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. |
| Skin Contact | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, get medical attention. |
| Eye Contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if ill effects occur. |
| Ingestion | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Obtain medical attention if ill effects occur. |

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

May cause an eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None necessary.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

In case of fire, use water spray, carbon dioxide (CO₂), spray foam, dry powder. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

No relevant information is available.

5.3 Advice for firefighters

None required.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate working area. Avoid contact with skin and eyes.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Collect in containers for disposal in accordance with local regulations.

6.4 Reference to other sections

See sections: 7, 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Adequately trained personnel should manipulate this product.

Do not eat, drink or smoke at the work place.

Wash thoroughly after handling.

Avoid contact with eyes. Avoid prolonged skin contact.

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers in a clean, cool and dry area. Avoid direct sunlight. Natural ventilation is adequate.

Storage temperature (°C): Ambient.

Incompatible materials: Avoid contact with oxidizing agents, reducing agents, strong acids, strong bases and amines.

7.3 Specific end use(s)

Addition curing vinyl polysiloxane dental impression materials for bite registration, consisting of base and catalyst, scannable with cad/cam technology.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters:

| Substance | TWA |
|------------------------|-----------------------|
| Quartz silica | |
| Dust (total dust) | 0.3 mg/m ³ |
| Dust (respirable dust) | 0.1 mg/m ³ |

TWA: Time-Weighted Average

Other components in section 3 do not have available data.

8.2 Exposure controls

Appropriate engineering controls

Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

| | |
|------------------------|---|
| Eye/face protection | Wear eye/face protection. Safety spectacles/goggles/full face shield. |
| Skin protection | Use of vinyl or nitrile gloves is recommended. Suitability of gloves should be confirmed with glove manufacturer. Do not use latex gloves which inhibit the chemical reaction of polyvinylsiloxane. |
| Respiratory protection | Not required. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------|
| Appearance | Bicomponent pastes |
| Odor | Characteristic |
| pH (Value) | Not applicable |
| Boiling Point (°C) | Not applicable |
| Flash Point (°C) | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Flammable Limits | Not applicable |
| Vapor pressure (Pascal) | Not applicable |
| Vapor Density (Air=1) | Not applicable |
| Solubility (Water) | Insoluble in water |
| Solubility (Other) | Not applicable |
| Partition Coefficient (n-Octanol/water) | Not applicable |
| Auto Ignition Temperature (°C) | Not self igniting |
| Oxidizing properties | Not applicable |
| Density (g/ml) | 1.2 – 1.8 |

10. STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive material.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Avoid oxidizing agents, reducing agents, strong acids, strong bases and amine leading to decomposition.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion

Inhalation

Skin contact

Eye contact

Low oral toxicity. Possibility of gastrointestinal irritation.

Unlikely to be hazardous by inhalation.

May cause skin irritation.

May cause irritation.

All the information presented below corresponds to the uncured components included in the product. Once the product is mixed according to the instructions for use, it is safe for its intended use. Other components in section 3 do not have available data.

Carcinogenicity:

| C.A.S. No. | Component | Class description | Regulation |
|------------|---------------|---------------------------------------|---|
| 14808-60-7 | Quartz silica | Group 1: Carcinogenic to humans | International Agency for Research on Cancer |

Acute toxicity

| Component | Route | Species | Value |
|---------------------------------------|------------|---------|---------------------|
| Polydimethylsiloxane vinyl terminated | Dermal | Rabbit | LD50 > 15,440 mg/Kg |
| | Ingestion | Rat | LD50 > 15,440 mg/Kg |
| Dimethylsiloxane copolymer | Dermal | Rabbit | LD50 > 2,000 mg/Kg |
| | Ingestion | Rat | LD50 > 2,000 mg/Kg |
| | Inhalation | Rat | LC50 4.2 mg/l |
| Quartz silica | Dermal | | LD50 > 5,000 mg/Kg |
| | Ingestion | | LD50 > 5,000 mg/Kg |
| Polysiloxane | Dermal | Rabbit | LD50 > 2,000 mg/Kg |
| | Ingestion | Rat | LD50 > 2,000 mg/Kg |
| | Inhalation | Rat | LC50 2 mg/l |

Skin corrosion/irritation

| Component | Species | Value |
|---------------------------------------|---------|---------------------------|
| Polydimethylsiloxane vinyl terminated | Rabbit | Mild irritation |
| Quartz silica | | No significant irritation |
| Polysiloxane | Rabbit | No significant irritation |

Serious eye damage/Irritation

| Component | Species | Value |
|---------------------------------------|---------|-------------------|
| Polydimethylsiloxane vinyl terminated | Rabbit | Mild irritation |
| Polysiloxane | Rabbit | Severe irritation |

Skin sensitization

| Component | Species | Value |
|--------------|------------|-----------------|
| Polysiloxane | Guinea pig | Not sensitizing |

Germ cell mutagenicity

| Component | Route | Value |
|---------------|----------|---------------|
| Polysiloxane | In vitro | Not mutagenic |
| Quartz silica | In vitro | Not mutagenic |

Carcinogenicity

| Component | Route | Species | Value |
|---------------|------------|------------------|--------------|
| Quartz silica | Inhalation | Human and Animal | Carcinogenic |

Reproduced and/or development effects

| Component | Route | Value | Species | Test Result | Exposure duration |
|--------------|-----------|---|---------|---------------------|-------------------------------|
| Polysiloxane | Ingestion | There is evidence for positive reproduction but limited data for classification | Rat | NOAEL 450 mg/Kg/day | pre-mating & during gestation |

Specific target organ toxicity – repeated exposure

| Component | Route | Target organ / Illness | Value | Species | Test Result | Exposure duration |
|---------------|------------|------------------------|--|---------|---------------------|-----------------------|
| Quartz silica | Inhalation | Lung / silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | Occupational exposure |

12. ECOLOGICAL INFORMATION

12.1 Toxicity

This product is not ecotoxic if properly used and handled.

12.2 Persistence and degradability

This product has not been tested.

12.3 Bioaccumulative potential

This product has not been tested.

12.4 Mobility in soil

This product has not been tested.

12.5 Results of PBT and vPvB assessment

This product has not been tested.

12.6 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

The waste is considered to be non hazardous. Dispose in accordance with local regulations.

13.1 Waste treatment methods

May be disposed by landfill in accordance with local regulations.

14. TRANSPORTATION CONSIDERATIONS

Not classified as Dangerous for Transport.

14.1 UN number

Not applicable.

14.2 UN Proper Shipping Name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

15. REGULATORY INFORMATION

WHMIS 2015

Canadian Hazardous Products Regulations (SOR/2015-17)

Canadian Hazardous Products Act (R.S.C., 1985, c. H-3)

Hazardous Products Information Regulation (Quebec S-2.1, r. 8.1)

16. OTHER INFORMATION

Date of revision : July 8, 2021

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