



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Glass Bubbles S32HS

#### Product Identification Numbers

WF-6009-1510-3      WF-6009-2665-4

7100221353      7010726218      7100419028

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Lightweight filler.

For Industrial or Professional use only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Not applicable.

**2.2. Label elements****Signal word**

Not applicable.

**Symbols**

Not applicable.

**Pictograms**

Not applicable

**2.3. Other assigned/identified product hazards**

None known.

**2.4. Other hazards which do not result in classification**

May be harmful if swallowed.

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

This material is a mixture.

| Ingredient   | CAS Nbr    | % by Weight |
|--|------------|-------------|
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | <= 3        |
| Sulfur Dioxide (released upon breakage of glass bubbles) | 7446-09-5  | < 1         |
| Soda Lime Borosilicate Glass (non-fibrous)               | 65997-17-3 | >= 97       |

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

**7.2. Conditions for safe storage including any incompatibilities**

No special storage requirements.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient  | CAS Nbr    | Agency         | Limit type                                       | Additional comments            |
|---|------------|----------------|--|--------------------------------|
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles  | 65997-17-3 | ACGIH          | TWA(inhalable particulates):10 mg/m <sup>3</sup> |                                |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 65997-17-3 | ACGIH          | TWA(respirable particles):3 mg/m <sup>3</sup>    |                                |
| Sulfur Dioxide (released upon breakage of glass bubbles)                              | 7446-09-5  | ACGIH          | STEL:0.25 ppm                                    | A4: Not class. as human carcin |
| Sulfur Dioxide (released upon   | 7446-09-5  | Australia OELs | TWA(8 hours):5.2 mg/m <sup>3</sup> (2            |                                |

|   |           |                |   |  |
|---|-----------|----------------|---|--|
| breakage of glass bubbles)  |           |                | ppm);STEL(15 minutes):13 mg/m3(5 ppm)     |  |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles  | 7631-86-9 | ACGIH          | TWA(inhalable particulates):10 mg/m3      |  |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 7631-86-9 | ACGIH          | TWA(respirable particles):3 mg/m3         |  |
| Synthetic Amorphous Crystalline-Free Silica   | 7631-86-9 | Australia OELs | TWA(respirable fraction)(8 hours):2 mg/m3 |  |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
Safety glasses with side shields.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:  
Half facepiece or full facepiece air-purifying respirator suitable for particulates.

For questions about suitability for a specific application, consult with your respirator manufacturer.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state

Solid.

Specific Physical Form:

Low density fine powder (< 100 microns)

|  |                              |
|--|------------------------------|
| <b>Colour</b>  | White                        |
| <b>Odour</b>   | odour less                   |
| <b>Odour threshold</b>                                   | <i>Not applicable.</i>       |
| <b>pH</b>  | <i>No data available.</i>    |
| <b>Melting point/Freezing point</b>                      | <i>No data available.</i>    |
| <b>Boiling point/Initial boiling point/Boiling range</b> | <i>Not applicable.</i>       |
| <b>Flash point</b>                                       | <i>Not applicable.</i>       |
| <b>Evaporation rate</b>                                  | <i>Not applicable.</i>       |
| <b>Flammability</b>                                      | Not applicable.              |
| <b>Flammable Limits(LEL)</b>                             | <i>Not applicable.</i>       |
| <b>Flammable Limits(UEL)</b>                             | <i>Not applicable.</i>       |
| <b>Vapour pressure</b>                                   | <i>Not applicable.</i>       |
| <b>Relative Vapor Density</b>                            | <i>Not applicable.</i>       |
| <b>Density</b>   | 0.1 - 0.6 g/cm <sup>3</sup>  |
| <b>Relative density</b>                                  | 0.1 - 0.6 [Ref Std: WATER=1] |
| <b>Water solubility</b>                                  | Negligible                   |
| <b>Solubility- non-water</b>                             | <i>Not applicable.</i>       |
| <b>Partition coefficient: n-octanol/water</b>            | <i>Not applicable.</i>       |
| <b>Autoignition temperature</b>                          | <i>Not applicable.</i>       |
| <b>Decomposition temperature</b>                         | <i>Not applicable.</i>       |
| <b>Kinematic Viscosity</b>                               | <i>Not applicable.</i>       |
| <b>Volatile organic compounds (VOC)</b>                  | <i>Not applicable.</i>       |
| <b>Percent volatile</b>                                  | < 0.5 % weight               |
| <b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>     | <i>Not applicable.</i>       |
| <b>Molecular weight</b>                                  | <i>No data available.</i>    |
| <b>Softening point</b>                                   | >=600 °C                     |

**Particle Characteristics** *Not applicable.*

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

None known.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

Oxides of sulphur.

#### Condition

If Breakage Occurs

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient

classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

##### Skin contact

Mechanical skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

##### Eye contact

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

##### Ingestion

May be harmful if swallowed.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name   | Route                          | Species | Value   |
|--|--------------------------------|---------|---|
| Overall product  | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE >12.5 mg/l            |
| Overall product  | Ingestion                      |         | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Soda Lime Borosilicate Glass (non-fibrous)               | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg                      |
| Soda Lime Borosilicate Glass (non-fibrous)               | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Synthetic Amorphous Crystalline-Free Silica              | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                      |
| Synthetic Amorphous Crystalline-Free Silica              | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                       |
| Synthetic Amorphous Crystalline-Free Silica              | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                      |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation-Gas (4 hours)       | Rat     | LC50 1,000 ppm  |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Soda Lime Borosilicate Glass (non-fibrous)               | Professional judgement  | No significant irritation |
| Synthetic Amorphous Crystalline-Free Silica              | Rabbit                  | No significant irritation |
| Sulfur Dioxide (released upon breakage of glass bubbles) | official classification | Corrosive                 |

#### Serious Eye Damage/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Soda Lime Borosilicate Glass (non-fibrous)               | Professional judgement | No significant irritation |
| Synthetic Amorphous Crystalline-Free Silica              | Rabbit                 | No significant irritation |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Human and animal       | Corrosive                 |

### Skin Sensitisation

| Name  | Species          | Value          |
|---|------------------|----------------|
| Synthetic Amorphous Crystalline-Free Silica | Human and animal | Not classified |

### Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name   | Route    | Value  |
|--|----------|--|
| Synthetic Amorphous Crystalline-Free Silica              | In Vitro | Not mutagenic  |
| Sulfur Dioxide (released upon breakage of glass bubbles) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Sulfur Dioxide (released upon breakage of glass bubbles) | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name   | Route          | Species          | Value  |
|--|----------------|------------------|--|
| Synthetic Amorphous Crystalline-Free Silica              | Not specified. | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation     | Human and animal | Some positive data exist, but the data are not sufficient for classification |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name   | Route      | Value                                  | Species | Test result           | Exposure Duration      |
|--|------------|--|---------|-----------------------|------------------------|
| Synthetic Amorphous Crystalline-Free Silica              | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation           |
| Synthetic Amorphous Crystalline-Free Silica              | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation           |
| Synthetic Amorphous Crystalline-Free Silica              | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis   |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation | Not classified for female reproduction | Mouse   | NOAEL 30 ppm          | 2 generation           |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation | Not classified for male reproduction   | Mouse   | NOAEL 30 ppm          | 2 generation           |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation | Not classified for development         | Human   | NOAEL Not available   | environmental exposure |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name   | Route      | Target Organ(s)    | Value                   | Species | Test result    | Exposure Duration |
|--|------------|--------------------|-------------------------|---------|----------------|-------------------|
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation | respiratory system | Causes damage to organs | Human   | NOAEL 0.25 ppm |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)    | Value          | Species | Test result         | Exposure Duration     |
|--|------------|--------------------|----------------|---------|---------------------|-----------------------|
| Synthetic Amorphous Crystalline-Free Silica              | Inhalation | respiratory system | Not classified | Human   | NOAEL Not available | occupational exposure |
| Synthetic Amorphous Crystalline-Free Silica              | Inhalation | silicosis          | Not classified | Human   | NOAEL Not available | occupational exposure |
| Sulfur Dioxide (released upon breakage of glass bubbles) | Inhalation | respiratory system | Not classified | Rat     | LOAEL 10 ppm        | 21 weeks              |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Exposure Levels**

Refer Section 8.1 **Control Parameters** of this Safety Data Sheet.

**Interactive Effects**

Not Determined

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material   | CAS Number | Organism          | Type  | Exposure | Test endpoint | Test result                |
|--|------------|-------------------|---|----------|---------------|----------------------------|
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Green algae       | Experimental  | 72 hours | ErC50         | >173.1 mg/l                |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Rainbow trout     | Experimental  | 96 hours | LC50          | >1,000 mg/l                |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Sediment organism | Experimental  | 96 hours | EC50          | 8,500 mg/kg (Dry Weight)   |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Water flea        | Experimental  | 48 hours | EL50          | >1,000 mg/l                |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Green algae       | Experimental  | 72 hours | NOEC          | 173.1 mg/l                 |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Water flea        | Experimental  | 21 days  | NOEC          | 68 mg/l                    |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Activated sludge  | Experimental  | 3 hours  | EC50          | >1,000 mg/l                |
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Redworm           | Experimental  | 56 days  | NOEC          | 100,000 mg/kg (Dry Weight) |
| Sulfur Dioxide (released upon breakage of glass bubbles) | 7446-09-5  | Fathead minnow    | Experimental  | 96 hours | LC50          | 26.2 mg/l                  |
| Sulfur Dioxide (released upon breakage of glass bubbles) | 7446-09-5  | Water flea        | Experimental  | 48 hours | EC50          | 1.94 mg/l                  |
| Soda Lime Borosilicate Glass (non-fibrous)               | 65997-17-3 | N/A               | Data not available or insufficient for classification | N/A      | N/A           | N/A                        |

## 12.2. Persistence and degradability

| Material   | CAS Number | Test type                       | Duration | Study Type                    | Test result       | Protocol |
|--|------------|---------------------------------|----------|-------------------------------|-------------------|----------|
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Data not available-insufficient | N/A      | N/A                           | N/A               | N/A      |
| Sulfur Dioxide (released upon breakage of glass bubbles) | 7446-09-5  | Estimated Photolysis            |          | Photolytic half-life (in air) | 6.4 hours (t 1/2) |          |
| Soda Lime Borosilicate Glass (non-fibrous)               | 65997-17-3 | Data not available-insufficient | N/A      | N/A                           | N/A               | N/A      |

## 12.3 : Bioaccumulative potential

| Material   | CAS Number | Test type   | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|------------|-------------|----------|
| Synthetic Amorphous Crystalline-Free Silica              | 7631-86-9  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Sulfur Dioxide (released upon breakage of glass bubbles) | 7446-09-5  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Soda Lime Borosilicate Glass (non-fibrous)               | 65997-17-3 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |

#### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility.

### SECTION 14: Transport Information

#### Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: Not applicable.

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable

IERG: Not applicable.

#### International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

#### International Maritime Dangerous Goods Code (IMDG)- Marine Transport

UN No.: Not applicable.

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

### SECTION 15: Regulatory information

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

**Australian Inventory Status:**

Not applicable, as this product/s aligns with the AICIS definition of an article.

**Poison Schedule:** This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

**SECTION 16: Other information**

**Revision information:**

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**