



## Safety Data Sheet

Copyright, 2019, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |            |                         |                |
|------------------------|------------|-------------------------|----------------|
| <b>Document group:</b> | 11-4410-4  | <b>Version number:</b>  | 1.00           |
| <b>Issue Date:</b>     | 01/09/2019 | <b>Supersedes date:</b> | Initial issue. |

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, Types A and D

#### Product Identification Numbers

75-0299-0517-3

#### 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.

## 3M™ Glass Bubbles, Types A and D

### 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 |
|--|-------------|-------------|
| Soda Lime Borosilicate Glass                         | 65997-17-3  | > 99        |
| Chromium, Aqua Chloro Hydroxy Methacrylate Complexes | 111031-82-4 | < 1         |

## 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

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

Material will not burn. 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

## 3M™ Glass Bubbles, Types A and D

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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 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 |
|------------------------------|------------|-------------------------|---|---------------------|
| Soda Lime Borosilicate Glass | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m <sup>3</sup> ;TWA(as non-fibrous, respirable)(8 hours):3 mg/m <sup>3</sup> |                     |

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

Provide appropriate local exhaust ventilation at transfer points. 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

Wear respiratory protection if ventilation is inadequate to prevent overexposure. 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

|  |   |
|--|---|
| <b>Physical state</b>                                    | Solid.                                  |
| <b>Specific Physical Form:</b>                           | Low Density Fine Powder (< 200 microns) |
| <b>Colour</b>  | White                                   |
| <b>Odour</b>   | Odourless                               |
| <b>Odour threshold</b>                                   | <i>Not applicable.</i>                  |
| <b>pH</b>  | <i>Not applicable.</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 (solid, gas)</b>                         | Not classified                          |
| <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>Vapour 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>No data available.</i>               |
| <b>Autoignition temperature</b>                          | <i>Not applicable.</i>                  |
| <b>Decomposition temperature</b>                         | <i>Not applicable.</i>                  |
| <b>Viscosity</b>   | <i>Not applicable.</i>                  |
| <b>Molecular weight</b>                                  | <i>No data available.</i>               |
| <b>Volatile organic compounds (VOC)</b>                  | <i>Not applicable.</i>                  |

|                                |                 |
|--------------------------------|-----------------|
| Percent volatile               | < 0.5 % weight  |
| Softening point                | >=600 °C        |
| VOC less H2O & exempt solvents | 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

| <u>Substance</u>   | <u>Condition</u>   |
|--------------------|--------------------|
| Oxides of sulphur. | 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.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**3M™ Glass Bubbles, Types A and D****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              | Ingestion |         | No data available; calculated ATE <sub>2,000</sub> - 5,000 mg/kg |
| Soda Lime Borosilicate Glass | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                               |
| Soda Lime Borosilicate Glass | Ingestion |         | LD50 estimated to be 2,000 - 5,000 mg/kg                         |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                         | Species                | Value                     |
|------------------------------|------------------------|---------------------------|
| Soda Lime Borosilicate Glass | Professional judgement | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                         | Species                | Value                     |
|------------------------------|------------------------|---------------------------|
| Soda Lime Borosilicate Glass | Professional judgement | No significant irritation |

**Skin Sensitisation**

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

**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  |
|------------------------------|----------|--|
| Soda Lime Borosilicate Glass | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                         | Route      | Species                 | Value  |
|------------------------------|------------|-------------------------|--|
| Soda Lime Borosilicate Glass | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

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

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

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

**Specific Target Organ Toxicity - repeated exposure**

| Name                         | Route      | Target Organ(s)    | Value          | Species | Test result         | Exposure Duration     |
|------------------------------|------------|--------------------|----------------|---------|---------------------|-----------------------|
| Soda Lime Borosilicate Glass | Inhalation | respiratory system | Not classified | Human   | NOAEL not available | occupational exposure |

## 3M™ Glass Bubbles, Types A and D

### 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  |
|--|-------------|-------------|---|----------|---------------|--------------|
| Soda Lime Borosilicate Glass                         | 65997-17-3  | Green algae | Experimental  | 72 hours | EC50          | >1,000 mg/l  |
| Soda Lime Borosilicate Glass                         | 65997-17-3  | Water flea  | Experimental  | 72 hours | EC50          | >1,000 mg/l  |
| Soda Lime Borosilicate Glass                         | 65997-17-3  | Zebra Fish  | Experimental  | 96 hours | LC50          | >1,000 mg/l  |
| Soda Lime Borosilicate Glass                         | 65997-17-3  | Green algae | Experimental  | 72 hours | NOEC          | >=1,000 mg/l |
| Chromium, Aqua Chloro Hydroxy Methacrylate Complexes | 111031-82-4 |             | Data not available or insufficient for classification |          |               |              |

### 12.2. Persistence and degradability

| Material                      | CAS Number  | Test type                       | Duration | Study Type | Test result | Protocol |
|-------------------------------|-------------|---------------------------------|----------|------------|-------------|----------|
| Soda Lime Borosilicate Glass  | 65997-17-3  | Data not available-insufficient |          |            | N/A         |          |
| Chromium, Aqua Chloro Hydroxy | 111031-82-4 | Data not available-insufficient |          |            | N/A         |          |

**3M™ Glass Bubbles, Types A and D**

|                        |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|
| Methacrylate Complexes |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|

**12.3 : Bioaccumulative potential**

| Material   | CAS Number  | Test type   | Duration | Study Type | Test result | Protocol |
|--|-------------|---|----------|------------|-------------|----------|
| Soda Lime Borosilicate Glass                         | 65997-17-3  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Chromium, Aqua Chloro Hydroxy Methacrylate Complexes | 111031-82-4 | 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:**

The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

**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:**

Initial issue.

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)**