

## Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

|                            |  |
|----------------------------|--|
| <b>Product Name</b>        | ● <b>GR-650F</b>                                     |
| <b>Synonyms</b>            | ● 650 Flake; 650F; Glass Resin Flake                 |
| <b>Product Code</b>        | ● GR-650F  |
| <b>Chemical Category</b>   | ● Polymethylsiloxane                                 |
| <b>Product Description</b> | ● Translucent Flake.                                 |
| <b>Molecular Formula</b>   | ● (CH <sub>3</sub> SiO <sub>1.5</sub> ) <sub>x</sub> |

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>Relevant identified use(s)</b> | ● Glass Resin Coating |
|-----------------------------------|-----------------------|

**1.3 Details of the supplier of the safety data sheet**

|                     |   |
|---------------------|---|
| <b>Manufacturer</b> | ● Techneglas, LLC<br>2100 N. Wilkinson Way<br>Perrysburg, OH 43551<br>United States<br>www.techneglas.com |
|---------------------|---|

**Telephone (General)** ● 419-873-2000

**1.4 Emergency telephone number**

|                     |   |
|---------------------|---|
| <b>Manufacturer</b> | ● 800-424-9300 - CHEMTREC                 |
| <b>Manufacturer</b> | ● 703-527-3887 - CHEMTREC - International |

**Section 2: Hazards Identification****EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

**2.1 Classification of the substance or mixture**

|            |                                    |
|------------|------------------------------------|
| <b>CLP</b> | ● Product considered non-hazardous |
|------------|------------------------------------|

**2.2 Label Elements**

**CLP**

**2.3 Other Hazards**

|            |                     |
|------------|---------------------|
| <b>CLP</b> | ● No data available |
|------------|---------------------|

**UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## 2.1 Classification of the substance or mixture

UN GHS ● Product considered non-hazardous

## 2.2 Label elements

UN GHS

**Hazard statements** ● Product considered non-hazardous

### Precautionary statements

**Prevention** ● Wear eye/face protection - Safety glasses, face shield.  
Wear protective gloves - Impervious to material.

**Response** ● IF ON SKIN: Wash with plenty of soap and water.

**Storage/Disposal** ● Store in a cool dry place.

## 2.3 Other hazards

UN GHS ● Product considered non-hazardous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

OSHA HCS 2012 ● Product considered non-hazardous

## 2.2 Label elements

OSHA HCS 2012

## 2.3 Other hazards

OSHA HCS 2012 ● Product considered non-hazardous.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

| Composition                 |  |        |                                     |   |           |
|-----------------------------|--|--------|-------------------------------------|---|-----------|
| Chemical Name               | Identifiers  | %      | LD50/LC50                           | Classifications According to Regulation/Directive | Comments  |
| Ethanol                     | CAS:64-17-5<br>EC Number:200-578-6<br>EINECS:200-578-6 | <= 2%  | Ingestion/Oral-Rat LD50 •<br>7 g/kg |   | entrapped |
| Polymethyl siloxane polymer | CAS:67763-03-5   | <= 98% |                                     | UN GHS:   | NDA       |

### 3.2 Mixtures

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** ● Remove to fresh air. Get medical attention.
- Skin** ● Wash the contaminated area of body with soap and fresh water. If skin irritation occurs: Get medical advice/attention.
- Eye** ● Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.
- Ingestion** ● If ingested, call control center or doctor immediately for treatment advice.

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

- No data available

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

See Section 2 for Potential Health Effects.

### Section 5 - Firefighting Measures

#### 5.1 Extinguishing media

- Suitable Extinguishing Media** ● Material is non-combustible. In case of fire use media as appropriate for surrounding fire.
- Unsuitable Extinguishing Media** ● No data available.
- Firefighting Procedures** ● Material is non-combustible and is not expected to pose a fire or explosion hazard.

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

- Unusual Fire and Explosion Hazards** ● Material is non-combustible and is not expected to pose a fire or explosion hazard. Material may release small amounts of ethanol upon heating.
- Hazardous Combustion Products** ● Oxides of carbon, silicon dioxide, water.

#### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

### Section 6 - Accidental Release Measures

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

- Personal Precautions** ● CAUTION: Victim may be a source of contamination. Do not touch or walk through spilled material.
- Emergency Procedures** ● No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

#### 6.2 Environmental precautions

- Runoff from fire control may cause pollution.

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

- Containment/Clean-up Measures** ● Clean up spilled material into a closed container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE)

#### 6.4 Reference to other sections

- No data available

### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

- Handling** ● Use good safety and industrial hygiene practices. Use only with adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage** ● Store in a cool dry place.

## 7.3 Specific end use(s)

● No data available

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

**Exposure Limits/Guidelines** ● Nuisance dust standards are applicable.

### 8.2 Exposure controls

**Engineering Measures/Controls** ● Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

#### Personal Protective Equipment

##### Pictograms



##### Respiratory

● Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

● Wear face shield and eye protection.

##### Hands

● Wear appropriate gloves.

##### Skin/Body

● Recommended to prevent skin irritation.

#### General Industrial Hygiene Considerations

● Handle in accordance with good industrial hygiene and safety practice.

#### Environmental Exposure Controls

● No data available

### 8.3 Other Information

● Wear suitable protective clothing, gloves, and eye/face protection.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

| Material Description             |                    |                        |                 |
|----------------------------------|--------------------|------------------------|-----------------|
| Physical Form                    | Solid              | Appearance/Description | Not relevant    |
| Color                            | Translucent flake. | Odor                   | Odorless        |
| Physical and Chemical Properties | Not relevant       |                        |                 |
| General Properties               |                    |                        |                 |
| Boiling Point                    | Not relevant       | Melting Point          | > 60 C(> 140 F) |
| Decomposition Temperature        | > 400 C(> 752 F)   | pH                     | Not relevant    |

|                                     |              |                       |              |
|-------------------------------------|--------------|-----------------------|--------------|
| Specific Gravity/Relative Density   | = 1 Water=1  | Water Solubility      | Not soluble  |
| Viscosity                           | Not relevant | Oxidizing Properties: | Not relevant |
| <b>Volatility</b>                   |              |                       |              |
| Vapor Pressure                      | Not relevant | Vapor Density         | Not relevant |
| Evaporation Rate                    | Not relevant | Volatiles (Vol.)      | 1 to 3 %     |
| <b>Flammability</b>                 |              |                       |              |
| Flash Point                         | Not relevant | UEL                   | Not relevant |
| LEL                                 | Not relevant | Autoignition          | Not relevant |
| Flammability (solid, gas)           | Not relevant |                       |              |
| <b>Environmental</b>                |              |                       |              |
| Octanol/Water Partition coefficient | Not relevant |                       |              |

## 9.2 Other Information

- No data available

### Key to abbreviations

NDA = No Data Available

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No data available

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Incompatible materials.

### 10.5 Incompatible materials

- Incompatible Materials: Strong oxidizing agents, concentrated mineral acids and hydrofluoric acid.

### 10.6 Hazardous decomposition products

- Normal cure releases small amounts of ethanol (64-17-5). Potential for small amounts of formaldehyde to be produced at high temperatures.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Components                      |         |  |
|---------------------------------|---------|--|
| Impurities, Stabilizers, etc... |         |  |
| Ethanol (<= 2%)                 | 64-17-5 | <b>Acute Toxicity:</b> Inhalation-Human TCl <sub>0</sub> • 1800 ppm 30 Minute(s); <i>Lungs, Thorax, or Respiration:</i> <b>Bronchiolar constriction; Lungs, Thorax, or Respiration:</b> <b>Cough</b> |

| GHS Properties        | Classification  |
|-----------------------|---|
| <b>Acute toxicity</b> | EU/CLP • No data available<br>OSHA HCS 2012 • No data available |

|                                      |   |
|--------------------------------------|---|
|                                      | UN GHS • No data available  |
| <b>Aspiration Hazard</b>             | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Carcinogenicity</b>               | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Germ Cell Mutagenicity</b>        | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Skin corrosion/Irritation</b>     | EU/CLP • Not relevant - Product considered non-hazardous<br>OSHA HCS 2012 • Not relevant - Product considered non-hazardous<br>UN GHS • No data available |
| <b>Skin sensitization</b>            | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>STOT-RE</b>                       | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>STOT-SE</b>                       | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Toxicity for Reproduction</b>     | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Respiratory sensitization</b>     | EU/CLP • No data available<br>OSHA HCS 2012 • No data available<br>UN GHS • No data available   |
| <b>Serious eye damage/Irritation</b> | EU/CLP • No data available<br>OSHA HCS 2012 • No data available - May cause irritation<br>UN GHS • No data available                                      |

**Medical Conditions  
Aggravated by Exposure  
Potential Health Effects  
Inhalation**

**Acute (Immediate)**

- No data available.
- Under normal conditions of use, no health effects are expected. Overexposure is only possible if this material is ground into finely divided powder and suspended in air. Under these conditions, upper respiratory congestion, dyspnea, chest pain, cough and decreased vital capacity may result.

**Chronic (Delayed)**

- Chronic overexposures may aggravate pre-existing respiratory or cardiovascular system conditions.

**Skin**

**Acute (Immediate)**

- May cause mild irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause skin dryness or dermatitis.

**Eye**

**Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- No data available.

**Ingestion**

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected. May cause irritation if swallowed.
- Chronic (Delayed)**
  - Repeated and prolonged exposure may be harmful.
- Mutagenic Effects**
  - No data available.
- Carcinogenic Effects**
  - This material is not listed as a carcinogen by the NTP, IARC or OSHA.
- Reproductive Effects**
  - No data available.

**Key to abbreviations**

LD = Lethal Dose

## Section 12 - Ecological Information

**12.1 Toxicity**

- No data available

**12.2 Persistence and degradability**

- No data available.

**12.3 Bioaccumulative potential**

- No data available.

**12.4 Mobility in Soil**

- No data available.

**12.5 Results of PBT and vPvB assessment**

- No data available

**12.6 Other adverse effects**

- Potential Environmental Effects**
  - No data available.

## Section 13 - Disposal Considerations

**13.1 Waste treatment methods**

- Product waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**13.2 Other Information**

- Prevent release to the environment.

## Section 14 - Transport Information

|     | <b>14.1 UN number</b> | <b>14.2 UN proper shipping name</b> | <b>14.3 Transport hazard class(es)</b> | <b>14.4 Packing group</b> | <b>14.5 Environmental hazards</b> |
|-----|-----------------------|-------------------------------------|--|---------------------------|-----------------------------------|
| DOT | NDA                   | NDA                                 | NDA                                    | NDA                       | NDA                               |
| TDG | NDA                   | NDA                                 | NDA                                    | NDA                       | NDA                               |
| ADN | NDA                   | NDA                                 | NDA                                    | NDA                       | NDA                               |

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| ADR/RID   | NDA | NDA | NDA | NDA | NDA |
| IATA/ICAO | NDA | NDA | NDA | NDA | NDA |

**14.6 Special precautions for user** ● No data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** ● No data available

**14.8 Other information** ● Material is considered non-hazardous per DOT shipping regulations.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** ● No data available

| Inventory                   |            |            |       |           |            |            |
|-----------------------------|------------|------------|-------|-----------|------------|------------|
| Component                   | CAS        | Canada DSL | China | EU EINECS | Japan ENCS | Korea KECL |
| Ethanol                     | 64-17-5    | Yes        | Yes   | Yes       | Yes        | Yes        |
| Polymethyl siloxane polymer | 67763-03-5 | Yes        | Yes   | No        | No         | No         |

  

| Inventory (Con't.)          |            |      |
|-----------------------------|------------|------|
| Component                   | CAS        | TSCA |
| Ethanol                     | 64-17-5    | Yes  |
| Polymethyl siloxane polymer | 67763-03-5 | Yes  |

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- |                               |            |            |
|-------------------------------|------------|------------|
| • Ethanol                     | 64-17-5    | B2, D2B    |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed |

#### Canada - WHMIS - Ingredient Disclosure List

- |                               |            |            |
|-------------------------------|------------|------------|
| • Ethanol                     | 64-17-5    | 0.1 %      |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed |

## China

### Other

#### China - Dangerous Goods List

- |                               |            |            |
|-------------------------------|------------|------------|
| • Ethanol                     | 64-17-5    |            |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed |

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- |                               |            |            |
|-------------------------------|------------|------------|
| • Ethanol                     | 64-17-5    | F; R11     |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed |



**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

|                               |            |                   |
|-------------------------------|------------|-------------------|
| • Ethanol                     | 64-17-5    | F R:11 S:(2)-7-16 |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed        |

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

|                               |            |            |
|-------------------------------|------------|------------|
| • Ethanol                     | 64-17-5    | S:(2)-7-16 |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed |

**Japan****Labor****Japan - ISHL Dangerous Substances**

|                               |            |                     |
|-------------------------------|------------|---------------------|
| • Ethanol                     | 64-17-5    | Flammable substance |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed          |

**Japan - ISHL Notifiable Substances**

|                               |            |                             |
|-------------------------------|------------|-----------------------------|
| • Ethanol                     | 64-17-5    | >0.1 % weight [Table 9, 61] |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed                  |

**Other****Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances**

|                               |            |                       |
|-------------------------------|------------|-----------------------|
| • Ethanol                     | 64-17-5    | Readily biodegradable |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed            |

**Japan - Fire Service Law - Hazardous Materials**

|                               |            |  |
|-------------------------------|------------|--|
| • Ethanol                     | 64-17-5    | Group 4 - Flammable liquids II (listed under Alcohols) |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed   |

**Japan - Japanese Pharmacopoeia Listing - Synthetics**

|                               |            |   |
|-------------------------------|------------|---|
| • Ethanol                     | 64-17-5    | (including anhydrous, ethanol for disinfection) |
| • Polymethyl siloxane polymer | 67763-03-5 | Not Listed                                      |

**15.2 Chemical Safety Assessment**

- No data available

**Section 16 - Other Information**

|  |  |
|--|--|
| <b>Last Revision Date</b>                | • 09/June/2015   |
| <b>Preparation Date</b>                  | • 09/June/2015   |
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