

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name	● GR-100F, GR-150F, GR-908F
Chemical Name	● Methyl phenyl silsesquioxane.
Synonyms	● Glass Resin Flake
Product Description	● Translucent Flake.
Molecular Formula	● (CH ₃ SiO _{1.5}) _x (C ₆ H ₅ SiO _{1.5}) _y

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

Relevant identified use(s)	● Glass Resin Coating
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1.3 Details of the supplier of the safety data sheet

Manufacturer	● Techneglas, LLC 2100 N. Wilkinson Way Perrysburg, OH 43551 United States www.techneglas.com
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Telephone (General) ● 419-873-2000

1.4 Emergency telephone number

Manufacturer	● 800-424-9300 - CHEMTREC
Manufacturer	● 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

CLP	● Product considered non-hazardous
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2.2 Label Elements

CLP

2.3 Other Hazards

CLP	● No data available
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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 EC Number:200-578-6 EINECS:200-578-6	<= 2%	Ingestion/Oral-Rat LD50 • 7 g/kg		entrapped
Methylphenylsilsesquioxane	CAS:67763-03-5	>= 98%		UN GHS: EU CLP: OSHA HCS 2012:	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
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	Volatiles (Vol.)	1 to 3 %
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
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 benzene and/or 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	Acute Toxicity: Inhalation-Human TCl _o • 1800 ppm 30 Minute(s); <i>Lungs, Thorax, or Respiration:</i> Bronchiolar constriction; Lungs, Thorax, or Respiration:Cough

GHS Properties	Classification
Acute toxicity	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant

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

**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

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
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
Methylphenylsilsesquioxane	67763-03-5	Yes	Yes	No	No	No

Inventory (Con't.)		
Component	CAS	TSCA
Ethanol	64-17-5	Yes
Methylphenylsilsesquioxane	67763-03-5	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Ethanol 64-17-5 B2, D2B
- Methylphenylsilsesquioxane 67763-03-5 Not Listed

Canada - WHMIS - Ingredient Disclosure List

- Ethanol 64-17-5 0.1 %
- Methylphenylsilsesquioxane 67763-03-5 Not Listed

China

Other

China - Dangerous Goods List

- Ethanol 64-17-5
- Methylphenylsilsesquioxane 67763-03-5 Not Listed

Europe

Other

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

- Ethanol 64-17-5 F; R11
- Methylphenylsilsesquioxane 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
• Methylphenylsilsesquioxane	67763-03-5	Not Listed

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

• Ethanol	64-17-5	S:(2)-7-16
• Methylphenylsilsesquioxane	67763-03-5	Not Listed

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

• Ethanol	64-17-5	Flammable substance
• Methylphenylsilsesquioxane	67763-03-5	Not Listed

Japan - ISHL Notifiable Substances

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

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

• Ethanol	64-17-5	Readily biodegradable
• Methylphenylsilsesquioxane	67763-03-5	Not Listed

Japan - Fire Service Law - Hazardous Materials

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

Japan - Japanese Pharmacopoeia Listing - Synthetics

• Ethanol	64-17-5	(including anhydrous, ethanol for disinfection)
• Methylphenylsilsesquioxane	67763-03-5	Not Listed

15.2 Chemical Safety Assessment

- No data available

Section 16 - Other Information**Last Revision Date**

- 11/June/2015

Preparation Date

- 11/June/2015

Disclaimer/Statement of Liability

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