## **Safety Data Sheet**



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

#### 1.1 Product identifier

Product Name • GR-950F

Chemical Name • Phenylsilsesquioxane

Synonyms • 950 Flake; Glass Resin Flake

Product Code • GR-950F

Product DescriptionMolecular Formula(C6H5SiO1.5)x

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

Relevant identified use(s) • Glass Resin Coating

## 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

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

2.2 Label Elements

**CLP** 

2.3 Other Hazards

**CLP** • 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 EC Number:200- 578-6 EINECS:200-578-6	<= 2%	Ingestion/Oral-Rat LD50 • 7 g/kg		entrapped		
Phenylsilsesquioxane	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.

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 may release small amounts of ethanol upon heating. Oxides of carbon, silicon dioxide, water.

**Hazardous Combustion Products** 

## 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

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 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

Format: EU CLP/REACH Language: English (US) UN GHS, EU CLP, OSHA HCS 2012

#### 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.

Eve/Face

Wear face shield and eye protection.

Hands

Wear appropriate gloves.

Skin/Body

Recommended to prevent skin irritation.

General Industrial Hygiene **Considerations** 

**Environmental Exposure** 

Handle in accordance with good industrial hygiene and safety practice.

Controls

No data available

#### 8.3 Other Information

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

#### Key to abbreviations

American Conference of Governmental ACGIH = Industrial Hygiene

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

National Institute of Occupational Safety and NIOSH = Health

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

Occupational Safety and Health

OSHA = Administration

## Section 9 - Physical and Chemical Properties

## 9.1 Information on Physical and Chemical Properties

Material Description						
Solid	Appearance/Description	Not relevant				
Translucent flake.	Odor	Odorless				
Not relevant						
General Properties						
Not relevant	Melting Point	> 60 C(> 140 F)				
	Translucent flake. Not relevant	Translucent flake. Odor Not relevant				

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 to be produced at high temperatures.

## **Section 11 - Toxicological Information**

## 11.1 Information on toxicological effects

Components						
Impurities, Stabilizers, etc						
	Acute Toxicity: Inhalation-Human TCLo • 1800 ppm 30 Minute(s); Lungs, Thorax, or Respiration: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

No data available.

Acute (Immediate)

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)

**Chronic (Delayed)** 

## Eye

Acute (Immediate)

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• May cause mild irritation.

Repeated and prolonged exposure may cause skin dryness or dermatitis.

May cause irritation.

#### **Chronic (Delayed)**

#### Ingestion

Acute (Immediate)

**Chronic (Delayed)** 

**Mutagenic Effects** 

**Carcinogenic Effects** Reproductive Effects

Key to abbreviations LD = Lethal Dose

No data available.

- Under normal conditions of use, no health effects are expected. May cause irritation if swallowed.
- Repeated and prolonged exposure may be harmful.
- No data available.
- This material is not listed as a carcinogen by the NTP, IARC or OSHA.
- No data available.

## 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 E	EINECS	Japan ENCS	Korea KECL
Ethanol	64-17-5	Yes	Yes	\	Yes	Yes	Yes
Phenylsilsesquioxane	67763-03-5	Yes	Yes		No	No	No
			Inventory (Co	on't.)			
Component			CAS		TSC	CA	
Ethanol			64-17-5		Ye	S	
Phenylsilsesquioxane			67763-03-5		Ye	s	

#### Canada

bor Canada - WHMIS - Classifications of Substances			
• Ethanol	64-17-5	B2, D2B	
Phenylsilsesquioxane	67763-03-5	Not Listed	
Canada - WHMIS - Ingredient Disclosure List			
• Ethanol	64-17-5	0.1 %	
Phenylsilsesquioxane	67763-03-5	Not Listed	

#### China

#### Other

**China - Dangerous Goods List** 

• Ethanol 64-17-5

• Phenylsilsesquioxane 67763-03-5 Not Listed

**Europe** 

#### Other

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

Ethanol
 Phenylsilsesquioxane
 64-17-5
 F; R11
 Not Listed

Thenylonocoquioxuno Troc do de Troc Liot

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling • Ethanol	64-17-5	F R:11 S:(2)-7-16
* Ethanor	04-17-5	FR.113.(2)-7-10
<ul> <li>Phenylsilsesquioxane</li> </ul>	67763-03-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases  • Ethanol	64-17-5	S:(2)-7-16

#### Japan

Labor  Japan - ISHL Dangerous Substances		
• Ethanol	64-17-5	Flammable substance
Phenylsilsesquioxane	67763-03-5	Not Listed
Japan - ISHL Notifiable Substances		
• Ethanol	64-17-5	>0.1 % weight [Table 9, 61]
Phenylsilsesquioxane	67763-03-5	Not Listed

Japan - Chemical Substance Control Law (CSCL) - Examined Exist • Ethanol	64-17-5	Readily biodegradable
Phenylsilsesquioxane	67763-03-5	Not Listed
Japan - Fire Service Law - Hazardous Materials		
• Ethanol	64-17-5	Group 4 - Flammable liquids l (listed under Alcohols)
Phenylsilsesquioxane	67763-03-5	Not Listed
Japan - Japanese Pharmacopoeia Listing - Synthetics		
• Ethanol	64-17-5	(including anhydrous, ethan for disinfection)
Phenylsilsesquioxane	67763-03-5	Not Listed

## 15.2 Chemical Safety Assessment

No data available

## **Section 16 - Other Information**

# Preparation Date Disclaimer/Statement of Liability

**Last Revision Date** 

- 11/June/2015
- 11/June/2015
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