

# Safety Data Sheet

gpcsilicones.com



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## 1 – PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Identifiers

**PRODUCT NAME:** GP-670  
**PRODUCT NUMBER:** C-9933-BULK  
**DESCRIPTION:** SILICONE RESIN SOLUTION  
**CAS NUMBER:** MIXTURE

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

No further relevant information available.

**USE OF SUBSTANCE:** Industrial / Mold Release Agent

### 1.3 Company Identifiers

**MANUFACTURER:** Genesee Polymers Corporation  
G-4099 S. Dort Hwy.  
Burton, MI 48529  
Tel (810) 715-5018 Fax (810) 742-8581  
Email: [cpiskoti@gpcsilicones.com](mailto:cpiskoti@gpcsilicones.com)

### 1.4 Emergency Contact Information

**24 HR. EMERGENCY PHONES:** CHEM\*TEL (800) 255-3924 (Domestic) / (813) 248-0585 (International)  
**Contract Number: MIS0002539**

## 2 – HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not Applicable

#### Information concerning particular hazards for human and environment:

Not Applicable

#### Additional Information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of component(s) of unknown toxicity.

## 2.2 GHS Label elements, including precautionary statements

### Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States. (GHS)

The product is classified and labelled according to the CLP regulation.

#### PICTOGRAMS:



#### SIGNAL WORD:

Danger

#### HAZARD DETERMINING COMPONENTS OF LABELLING:

ethanol

#### HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

#### PRECAUTIONARY STATEMENTS

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P280: Wear protective gloves/protective clothing/eye protection.

P233 Keep container tightly closed.

P264: Wash thoroughly after handling.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use foam, powder or carbon dioxide for extinction.

P403+P235: Store in a well ventilated place. Keep cool.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### HAZARD DESCRIPTION:

##### WHMIS-SYMBOLS:

B2-Flammable liquid.

D2B-Toxic material causing other toxic effects.

As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.

#### NFPA-ratings (scale 0 – 4)

Health	2
Flammability	3
Reactivity	0

#### HMIS-ratings (scale 0 – 4)

Health	2
Flammability	3
Reactivity	0
Personal Protection	H

## HMIS LONG TERM HEALTH SUBSTANCES

None of the ingredients are listed.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

## 3 – HAZARDS IDENTIFICATION

### 3.1 Substances

**Description:** Mixture of substances listed below with nonhazardous additions.

**CAS-No.:** MIXTURE

#### Hazardous components:

COMPONENT	CLASSIFICATION	CONCENTRATION
ethanol CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319	50-100%
Siloxanes and Silicones, di-Me, (triethoxysilyloxy)-terminated CAS: 67923-21-1	Flam. Liq. 3, H226	10-25%

#### Additional Information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

## 4 – FIRST-AID MEASURES

### 4.1 Description of first aid measures

**GENERAL INFORMATION:** Immediately remove any clothing soiled by the product. Take affected persons out into fresh air.

**BREATHING (INHALATION):** Supply fresh air; consult doctor in case of complaints.

**SKIN (DERMAL):** Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

**EYES:** Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**SWALLOWING (INGESTION):** Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

May cause gastro-intestinal irritation if ingested.

Nausea in case of ingestion.

Strong irritant with the danger of severe eye injury.

Slight irritant effect on skin and mucous membranes.

Vomiting.

**HAZARDS:** No further relevant information available.

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

No further relevant information available.

## 5 – FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Genesee Polymers - GP-670

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** None.

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

Formation of toxic gases is possible during heating or in case of fire.

**3 Advice for firefighters**

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog or haze.

Use large quantities of foam as it is partially destroyed by the product.

## 6 – ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation.

Use personal protective equipment as required.

Keep away from ignition sources.

Protect from heat.

**6.2 Environmental precautions:**

Do not allow to enter sewers/surface or ground water.

**6.3 Methods and material for containment and clean up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders.)

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information.

## 7 – HANDLING and STORAGE

**7.1 Precautions for safe handling**

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

Keep from heat and sources of ignition.

**Information about fire – and explosion protection:**

Highly flammable liquid and vapour.

Flammable gas-air mixtures may form in empty receptacles.

Fumes can combine with air to form an explosive mixture.

Protect against electrostatic charges.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store below 77 F (25 C)

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Provide ventilation for receptacles.

**Information about storage in one common storage facility:**

Avoid storage near extreme heat, ignition sources or open flame.

Store away from foodstuffs.  
 Store away from oxidizing agents.  
 Protect from humidity and water.

**Further information about storage conditions:**

Store under inert gas.  
 Keep container tightly sealed.

**7.3 Specific end use(s)**

No further relevant information available.

**8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Additional information about design of technical facilities:** No further data; see item 7

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

Ingredient	CAS number	Data type	Value
ethanol	64-17-5	PEL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
ethanol	64-17-5	REL(USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
ethanol	64-17-5	TLV (USA)	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm
ethanol	64-17-5	EL (Canada)	Short-term value: 1000 ppm
ethanol	64-17-5	EV (Canada)	Long-term value: 1,900 mg/m <sup>3</sup> , 1000 ppm

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

**Ingredients with biological limit value**

Ingredient	CAS number	Data type	Value
None	N/A	N/A	N/A

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.  
 Keep away from foodstuffs, beverages and feed.  
 Use only in well ventilated areas

**Respiratory protection:**

Not required under normal conditions of use.  
 Use suitable respiratory protective device when high concentrations are present.  
 For large spills, respiratory protection may be advisable.  
 Use suitable respiratory protective device when aerosol or mist is formed.

**Protection of hands:**



**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**



**Safety glasses**

#### **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

#### **Limitation and supervision of exposure into the environment**

Avoid release to the environment.

#### **Risk management measures**

See section 7 for additional information.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

**Form:** Liquid.

**Colour:** Clear to straw color.

**Odour:** Like alcohol

**Odour threshold:** Not determined.

**pH value:** 7

##### Change in condition:

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** 78°C ( 173°F)

**Flash point:** 13 °C (55 °F)

**Flammability (solid, gaseous):** Not applicable.

**Auto/Self-ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Self-igniting:** Not determined.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

**Vapor pressure:** 1.32 hPa (1 mm Hg)

**Density at 25 °C:**

**Relative density:** Not determined.

**Vapour density at 20 °C** Not determined.

**Evaporation rate:** Not determined.

##### Solubility in / Miscibility with

**Water:** Dispersible.

##### Partition coefficient

**(n-octanol/water)** Not determined.

##### Viscosity:

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**9.2 Other information** No further relevant information available.

## 10 – STABILITY and REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided

Keep away from heat/sparks/open flames/hot surfaces - No smoking.

Heating may cause release of toxic fumes.

### 10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour.

Reacts with amines.

Used empty containers may contain product gases which form explosive mixtures with air.

Toxic fumes may be released if heated above the decomposition point.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Reacts with strong acids and oxidising agents.

### 10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Moisture

### 10.5 Incompatible materials:

Oxidizing agents.

### 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.

Ethanol

Silicon Oxides (SiO<sub>x</sub>)

## 11 – TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity (LD/LC50 values):

Ingredient	CAS Number	Data Type	Value
ethanol	64-17-5	Oral LD50	7060 mg/kg (rat)
ethanol	64-17-5	Inhalative LC50/4h	20000 mg/l (rat)

#### Primary irritant effect:

**On the skin:** Slight irritant effect on skin and mucous membranes.

**On the eye:** Irritating effect.

#### Subacute to chronic toxicity

No further relevant information available.

**Sensitisation:** No sensitising effects known.

#### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Product is suspected to cause damage to fertility or the unborn child.

#### Repeated dose toxicity:

No further relevant information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Based on available data, the classification criteria are not met.

## 12 – ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

## 13 –DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Recommendation**

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

**Uncleaned packaging:**

**Recommendation:**

## 14 – TRANSPORTATION INFORMATION

### 14.1 Transport hazard information

**DOT**  
**UN Number:** UN1987  
**Proper shipping name:** Alcohols, n.o.s. (Ethanol, siloxanes and silicones, di-Me, ((triethoxysilyl)oxy)-terminated)  
**Hazard class:** 3 Flammable liquids.  
**Label:** 3  
**Packing group:** II  
**Special instructions:** Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5L (1.3 gal).



**ADR**  
**UN Number:** UN1987  
**Proper shipping name:** ALCOHOLS, N.O.S. (ETHANOL, SILOXANES AND SILICONES, DI-ME, ((TRIETHOXSILYL)OXY)-TERMINATED  
**Hazard class:** 3 (F1) Flammable liquids.  
**Label:** 3  
**Packing group:** II  
**Excepted quantities:** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml  
**Transport category:** 2  
**Tunnel restriction code:** D/E



**IMDG**

**UN Number:** UN1987  
**Proper shipping name:** ALCOHOLS, N.O.S. (ETHANOL, SILOXANES AND SILICONES, DI-ME, ((TRIETHOXSILYL)OXY)-TERMINATED)  
**Hazard class:** 3 Flammable liquids.  
**Label:** 3  
**Packing group:** II  
**Excepted quantities:** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**IATA**

**UN Number:** UN1987  
**Proper shipping name:** Alcohols, n.o.s. (Ethanol, siloxanes and silicones, di-Me, ((triethoxysilyl)oxy)-terminated)  
**Hazard class:** 3 Flammable liquids.  
**Label:** 3  
**Packing group:** II

**14.2 Environmental hazards:**

**Marine pollutant:** No

**14.3 Special precautions for user:** Warning: Flammable liquids.

**Danger code:** 33

**EMS Number:** F-E, S-D

**Transport in bulk according to AnnexII of**

**MARPOL73/78 and the IBC Code:** Not applicable

**UN "Model Regulation":** UN1987, FLAMMABLE LIQUIDS, N. O. S. (ETHANOL, Siloxanes and Silicones, di-Me, (triethoxysilyl)oxy)-terminated), 3, II

**15 - REGULATIONS****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****United States (USA)****SARA****Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65 (California)****Chemicals known to cause cancer:**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. Present in trace quantities.  
64-17-5 ethanol

**Chemicals known to cause reproductive toxicity for females:**

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None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 ethanol

**Carcinogenic Categories**

**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**IARC (International Agency for Research on Cancer):**

64-17-5 ethanol

**TLV (Threshold Limit Value established by ACGIH):**

64-17-5 ethanol

**NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**Canada**

**Canadian Domestic Substances list:**

64-17-5 ethanol

**Canadian Ingredient Disclosure list (limit 0.1%):**

64-17-5 ethanol

**Canadian Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed

**Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**Substances of very high concern (SVHC) according to REACH, Article 57:**

None of the ingredients are listed.

**15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**16 – OTHER INFORMATION**

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damages, direct or indirect, as a result of their use.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (Canada)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50 Lethal concentration, 50 percent

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Flam. Liq. 2 Flammable liquids, Hazard Category 2  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances

**Sources**

SDS Prepared by:  
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