

Safety Data Sheet

gpsilicones.com



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1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

PRODUCT NAME: GP-422
PRODUCT NUMBER: C-5700-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 / Hydrophobing agent/water repellent.

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@gpsilicones.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. 3 H226 Flammable liquid and vapour.

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

Not Regulated

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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.

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

PICTOGRAMS:



SIGNAL WORD:

Warning.

HAZARD DETERMINING COMPONENTS OF LABELLING:

Decamethylcyclopentasiloxane

HAZARD STATEMENTS

H226: Flammable liquid and vapour

PRECAUTIONARY STATEMENTS

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

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

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

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.

P308+313: IF exposed or concerned: Get medical advice/attention.

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

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

HAZARD DESCRIPTION:

WHMIS-SYMBOLS:

B3-Combustible liquid

D2B-Toxic material causing other toxic effects.

NFPA-ratings (scale 0 – 4)

Health	0
Flammability	3
Reactivity	0

HMIS-ratings (scale 0 – 4)

Health	0
Flammability	3
Reactivity	0
Personal Protection	H

HMIS LONG TERM HEALTH SUBSTANCES

64-14-5 ethanol

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	< 2.5%

Additional Information:

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

For the wording of the listed risk phrases refer to section 16.

4 – FIRST-AID MEASURES

4.1 Description of first aid measures

GENERAL INFORMATION: Immediately remove any clothing soiled by the product.

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

SKIN (DERMAL): Immediately wash with soap and water and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

EYES: Protect unharmed eye.

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.

HAZARDS: Suspected of damaging fertility or the unborn child.

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:

Foam.

Alcohol resistant foam.

Carbon dioxide.

Gaseous extinguishing agents.

Water haze or fog.

For safety reasons unsuitable extinguishing agents: Water with full jet.

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5.2 Special hazards arising from the substance or mixture:

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

5.3 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.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Protect from heat.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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.

Allow to evaporate

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.

Information about fire – and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Emergency cooling must be available in case of nearby fire.

Flammable gas-air mixtures may form in empty receptacles.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool, dry place.

Provide ventilation for receptacles.

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

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

Protect from humidity and water.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
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
None	N/A	N/A	N/A

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.

Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

For large spills, respiratory protection may be advisable.

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.

As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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

No further relevant information available.

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:	Colourless
Odour:	Not determined.
Odour threshold:	Not determined.
pH value:	7
Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	175°C (347°F)
Flash point:	31 ° C (88° F) (PMCC)
Flammability (solid, gaseous):	Not applicable.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	0.4 Vol %
Upper:	19 Vol %
Vapor pressure:	1.32 hPa (1 mm Hg)
Density at 25 °C:	1.07 g/cm ³ (8.929 lbs/gal)
Relative density:	Not determined.
Vapour density at 20 °C	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity:	
Dynamic:	500 cSt
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.

10.3 Possibility of hazardous reactions

Flammable liquid and vapour.

Reacts with oxidizing agents.
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 alkali (lyes).

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.

10.5 Incompatible materials:

Oxidizing agents.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.
Formaldehyde
Silicon Oxides (SiO_x)

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (LD/LC50 values):

Ingredient	CAS Number	Data Type	Value
None	N/A	N/A	N/A

Primary irritant effect:

On the skin: May have mild irritant effect on skin and mucous membranes

On the eye: May have mild irritant effect on eyes.

Subacute to chronic toxicity

No further relevant information available.

Sensitisation: No sensitising effects known.

Additional toxicological information:

Repeated dose toxicity:

May cause damage to organs through prolonged or repeated exposure.

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.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 – TRANSPORTATION INFORMATION

14.1 Transport hazard information

DOT
UN Number: UN1993
Proper shipping name: Flammable liquids, n.o.s (decamethylcyclopentasiloxane, ethanol)
Hazard class: 3 Flammable liquids.
Label: 3
Packing group: III
Special instructions: Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5L (1.3 gal).



ADR
UN Number: UN1993
Proper shipping name: 1993 FLAMMABLE LIQUIDS, N.O.S. (DECAMETHYLCYCLOPENTASILOXANE, ETHANOL)
Hazard class: 3 (F1) Flammable liquids.
Label: 3
Packing group: III
Limited quantities: 5L
Transport category: 2
Tunnel restriction code: D/E



IMDG
UN Number: UN1993
Proper shipping name: FLAMMABLE LIQUIDS, N. O. S. (DECAMETHYLCYCLOPENTASILOXANE, ETHANOL)
Hazard class: 3 Flammable liquids.
Label: 3
Packing group: III



IATA
UN Number: UN1993
Proper shipping name: Flammable liquids, n. o. s. (decamethylcyclopentasiloxane, ethanol)
Hazard class: 3 Flammable liquids.
Label: 3
Packing group: III



14.2 Environmental hazards:

Marine pollutant: No

14.3 Special precautions for user: Warning: Flammable liquids.

Danger code: 30

EMS Number: F-E, S-E

Transport in bulk according to AnnexII of

MARPOL73/78 and the IBC Code: Not applicable

UN "Model Regulation": UN1993, FLAMMABLE LIQUIDS, N. O. S. (decamethylcyclopentasiloxane, ethanol), 3, III

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
64-17-5 ethanol

Chemicals known to cause reproductive toxicity for females:

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:

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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.
H413 May cause long lasting harmful effects to aquatic life.
H304 May be fatal if swallowed and enters airways.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation
R11 Highly flammable
R36 Irritating to eyes.

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
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
LD50: Lethal dose, 50 percent
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
Aquatic Chronic 4: Hazardous to the aquatic environment- Chronic Hazard Category 4
DG: International Maritime Code for Dangerous Goods

Sources

SDS Prepared by:
Genesee Polymers Co
DOT: US Department of Transportation
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Aquatic Chronic 4: Hazardous to the aquatic environment- Chronic Hazard Category 4
poration

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