Safety Data Sheet

gpcsilicones.com

GENESEE POLYMERS CORPORATION

Version: 3

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1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

PRODUCT NAME: **GP-219**
PRODUCT NUMBER: C-2852-BULK
DESCRIPTION: SILICONE POLYOL COPOLYMER
CAS NUMBER: 68938-54-5

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

No further relevant information available.

USE OF SUBSTANCE: Industrial / Wetting 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

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).
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Acute Tox. 4 H332 Harmful if inhaled.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R20 Harmful by inhalation.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Information concerning particular hazards for human and environment:
Not Applicable
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 following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411
The product is classified and labelled according to the Globally Harmonised System (GHS).

PICTOGRAMS:

SIGNAL WORD: **Warning**

HAZARD DETERMINING COMPONENTS OF LABELLING:
Siloxanes and Silicones, Di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether
HAZARD STATEMENTS
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
P261 Avoid breathing mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P391 Collect spillage
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARD DESCRIPTION:
WHMIS-SYMBOLS:
Not hazardous under WHMIS.

NFPA-ratings (scale 0 – 4)

Health	1
Flammability	1
Reactivity	0

HMIS-ratings (scale 0 – 4)

Health	1
Flammability	1
Reactivity	0
Personal Protection	B

HMIS LONG TERM HEALTH SUBSTANCES
Substance is not 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: Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether
CAS-No.: 68938-54-5

Hazardous components:

COMPONENT	CLASSIFICATION	CONCENTRATION
Not Regulated	N/A	N/A

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. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

BREATHING (INHALATION): Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of unconsciousness place patient stably in side position for transportation.

SKIN (DERMAL): Immediately rinse with water.
If skin irritation is experienced, consult a doctor.
Launder contaminated clothing before re-use.
Immediately remove any clothing soiled by the product.

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

Headache.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Coughing.
Difficulty breathing
Slight irritant effect on skin and mucous membranes.
Slight irritant effect on eyes.

HAZARDS: Harmful if inhaled.
May be harmful if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

5 – FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:
Alcohol resistant foam.
Fire-extinguishing powder.
Carbon dioxide.
Gaseous extinguishing agents.

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.

5.3 Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked/spilled product.
Wear respiratory protection.
6.2 Environmental precautions:
Do not allow to enter sewers/surface or ground water.
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.
Ensure adequate ventilation.
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 respiratory protective device available.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
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 acids.
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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Keep away from foodstuffs, beverages and feed.
Do not inhale gases / fumes / aerosols.
Respiratory protection:
For spills, respiratory protection may be advisable.
Use suitable respiratory protective device when aerosol or mist is formed.
Use suitable respiratory protective device when high concentrations are present.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
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:
Impervious protective clothing.
Limitation and supervision of exposure into the environment
Do not release into any body of water.
No further relevant information available.
Risk management measures
See section 7 for additional information.
No further relevant information available.

9 – PHYSICAL / CHEMICAL PROPERITES

9.1 Information on basic physical and chemical properties
General Information
Appearance:
Form: Liquid.

Colour:	Clear to straw color.
Odour:	Mild
Odour threshold:	Not determined.
pH value:	Not determined.
Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	>392°F (>200°C)
Flash point:	>149 °C (>300 °F)
Flammability (solid, gaseous):	Not applicable.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	1.32 hPa (1 mm Hg)
Density at 25 °C:	1.1 g/cm^3 (9.18 lbs/gal)
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:	440 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
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
10.3 Possiblility of hazardous reactions
Reacts with strong acids and oxidising agents.
10.4 Conditions to avoid
Store away from oxidizing agents.
Keep away from heat and direct sunlight.
10.5 Incompatible materials:
No further relevant information available.
10.6 Hazardous decomposition products:
Carbon monoxide and carbon dioxide.
Silicon Oxides.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity (LD/LC50 values):

Ingredient	CAS Number	Data Type	Value
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	68938-54-5	Oral LD50	>2000 mg/kg (rat)
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	68938-54-5	Inhalative LC50/4h	11 mg/l (rat)

Primary irritant effect:
On the skin: Slight irritant effect on skin and mucous membranes.
On the eye: Slight irritant effect on eyes.
Sensitisation: No sensitising effects known.
Additional toxicological information:

Acute effects (acute toxicity, irritation and corrosivity):
Harmful if inhaled.
May be harmful if swallowed.

12 – ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: Toxic for aquatic organisms The following ingredients are harmful to the environment:
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether
CAS #68938-54-5
EC50 - 1.1 mg/kg (daphnia)
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:
Ecotoxical effects:
Remark: Toxic for fish
General notes:
Do not allow product to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
lso poisonous for fish and plankton in water bodies.
12.5 Results of PBT and vPvB assessment: Not applicable.
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.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. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

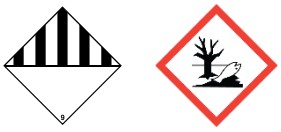
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14 – TRANSPORTATION INFORMATION

14.1 Transport hazard information

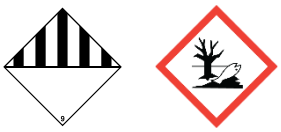
DOT

UN Number:	UN 3082
Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s (polyethersiloxane)
Hazard class:	9 Miscellaneous dangerous substances and articles.
Label:	9
Packing group:	III
Special instructions:	Product contains environmentally hazardous substances: Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether



ADR

UN Number:	UN3082
Proper shipping name:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHERSILOXANE)
Hazard class:	9 (M6) Miscellaneous dangerous substances and articles
Label:	9
Packing group:	III
Limited quantities:	5L
Excepted quantities:	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category:	3
Tunnel restriction code:	E

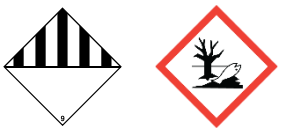


IMDG

UN Number:	UN3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHERSILOXANE) MARINE POLLUTANT
Hazard class:	9 Miscellaneous dangerous substances and articles.
Label:	9
Packing group:	III
Limited quantities:	5L
Excepted quantities	Code: E1

IATA

UN Number:	UN3082
Proper shipping name:	Enviromentally hazardous substance, liquid, n.o.s. (polyethersiloxane)
Hazard class:	9 Miscellaneous dangerous substances and articles.
Label:	9
Packing group:	III



14.2 Environmental hazards:
Marine pollutant: Yes
Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA) Symbol (fish and tree)
14.3 Special precautions for user: Warning: Miscellaneous dangerous substances and articles.
EMS Number: F-A,S-F
Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code: Not applicable
UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, 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):
Substance is not listed.
Section 313 (Specific toxic chemical listings):
Substance is not listed.
TSCA (Toxic Substances Control Act):
Substance is listed
Proposition 65 (California)
Chemicals known to cause cancer:
Substance is not listed
Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
Chemicals known to cause developmental toxicity:
Substance is not listed.
Carcinogenic Categories
EPA (Environmental Protection Agency)
Substance is not listed.
IARC (International Agency for Research on Cancer):
Substance is not listed.
TLV (Threshold Limit Value established by ACGIH):
Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):
Substance is not listed.
Canada
Canadian Domestic Substances list:
Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%):
Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%):
Substance is not 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.
Substances of very high concern (SVHC) according to REACH, Article 57:
Substance is not 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.

Abbreviations and acronyms:
ADR: Accord europeen 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
LD50: Lethal dose, 50 percent
Acute Tox.4: Acute toxicity, Hazard Category 4
Aquatic Chronic 2: Hazardous to the aquatic environment- Chronic Hazard Category 2

Sources
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