

Safety Data Sheet

gpcsilicones.com



Version: 4

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1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

PRODUCT NAME: GP-997
PRODUCT NUMBER: C-1021-BULK
DESCRIPTION: AMINE FUNCTIONAL SILICONE FLUID
CAS NUMBER: 71750-79-3
EC NUMBER: 615-336-9

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

No further relevant information available.

USE OF SUBSTANCE: Industrial / Chemical for synthesis 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

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).

Aquatic Aute 1 H400 Very toxic to aquatic life.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

R36/38 Irritating to eyes and skin.

R50 Very toxic to aquatic organisms.

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 substance is classified and labelled according to the CLP regulation.

The product is classified and labelled according to the Globally Harmonised System (GHS).

PICTOGRAMS:**SIGNAL WORD:**

Warning.

HAZARD DETERMINING COMPONENTS OF LABELLING:

Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated

HAZARD STATEMENTS

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H400 very toxic to aquatic life.

PRECAUTIONARY STATEMENTS

P264: Wash thoroughly after handling.

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

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

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

P332+P313 If skin irritation occurs; Get medical advice/attention.

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

P302+P352 IF ON SKIN: wash with plenty of water.

HAZARD DESCRIPTION:**WHMIS-SYMBOLS:**

D2B-Toxic material causing other toxic effects.

NFPA-ratings (scale 0 – 4)

Health	2
Flammability	1
Reactivity	0

HMS-ratings (scale 0 – 4)

Health	2
Flammability	1
Reactivity	0
Personal Protection	D

HMS 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: Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated
CAS-No.: 71750-79-3
EC-No.: 615-336-9

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.

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.
Launder contaminated clothing before re-use.
Seek immediate medical help for blistering or opened wounds.

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

Irritant to skin and mucous membranes.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.

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:

Foam.
Alcohol resistant foam.
Fire-extinguishing powder.
Carbon dioxide.
Gaseous extinguishing agents.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet.

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

Cool endangered receptacles with water spray.
Eliminate all ignition sources if safe to do so.

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.

Protect from heat.

6.2 Environmental precautions:

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

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.

Information about fire – and explosion protection:

Keep ignition sources away - Do not smoke.

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.

Further information about storage conditions:

Store at temperatures not exceeding 27 C/ 80 F

Keep container tightly sealed.

Store in dry conditions.

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 and skin.

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:

Protective work clothing

Alkaline resistant protective clothing

Limitation and supervision of exposure into the environment

Avoid release to the environment.

Risk management measures

See section 7 for additional information.

No further relevant information available.

9 – PHYSICAL / CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid.

Colour: Clear to straw color.

Odour: Amine-like

Genesee Polymers - GP-997

Odour threshold:	Not determined.
pH value:	8 - 10
Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Undetermined.
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:	0.98 g/cm ³ (8.178 lbs/gal)
Relative density:	Not determined.
Vapour density at 20 °C	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient	
(n-octanol/water)	Not determined.
Viscosity:	
Dynamic:	2000 cP
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

Reacts with acids.

Reacts with strong oxidising agents.

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

Reacts with alkali (lyes).

Reacts with water.

Combustible liquid.

10.4 Conditions to avoid

Store away from oxidizing agents.

Keep ignition sources away - Do not smoke.

Keep away from heat and direct sunlight.

10.5 Incompatible materials:

Oxidizing agents.

Water

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.

Nitrogen oxides (NOx)

Silicon Oxides.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (LD/LC50 values):

Ingredient	CAS Number	Data Type	Value
Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy- terminated	71750-79-3	Oral LD50	5000 mg/kg (rat)
Dimethyl, (Aminothylaminopropyl)methyl Siloxane, Trimethylsiloxy- terminated	71750-79-3	Dermal LD 50	2000 mg/kg (rabbit)
Dimethyl, (Aminothylaminopropyl)methyl Siloxane, Trimethylsiloxy- terminated	71750-79-3	Inhalative LD50/4h	105 mg/l (rat)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: May cause irritation, redness and pain.

Sensitisation: No sensitising effects known.

Additional toxicological information:

Acute effects (acute toxicity, irritation and corrosivity):

Causes skin and eye irritation.

May be harmful if swallowed.

May be harmful if inhaled.

12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms

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:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably reduced, the aqueous waste, emptied into drains, is only low water-dangerous.

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. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

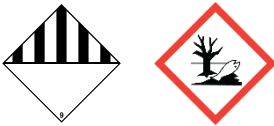
Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 – TRANSPORTATION INFORMATION

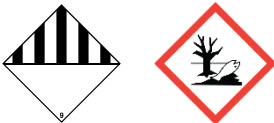
14.1 Transport hazard information

DOT
UN Number: UN 3082
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s (Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated)
Hazard class: 9 Miscellaneous dangerous substances and articles.
Label: 9
Packing group: III
Special instructions: Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400 kg (882 pounds) for a solid.



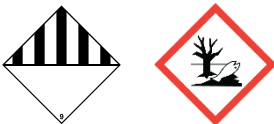
ADR

UN Number: UN3082
Proper shipping name: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated)
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



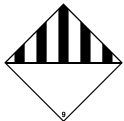
IMDG

UN Number: UN3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated), MARINE POLLUTANT
Hazard class: 9 Miscellaneous dangerous substances and articles.
Label: 9
Packing group: III



IATA

UN Number: UN3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated), MARINE POLLUTANT
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.

Danger code: 90

EMS Number: F-A,S-F

Transport in bulk according to AnnexII of

MARPOL73/78 and the IBC Code: Not applicable

UN "Model Regulation": for a solid. UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dimethyl, (Aminoethylaminopropyl)methyl Siloxane, Trimethylsiloxy-terminated), 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.

Genesee Polymers - GP-997

PAGE 9 of 10

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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

Skin irrit. 2 Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment-Acute Hazard, Category 1

EINECS: European Inventory of Existing Commercial Chemical Substances

Sources

SDS Prepared by:

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