

Safety Data Sheet

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1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

PRODUCT NAME: GP-16
PRODUCT NUMBER: C-2702-BULK
DESCRIPTION: METHYL TRIMETHOXYSILANE
CAS NUMBER: 1185-55-3
EC NUMBER: 214-685-0

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

No further relevant information available.

USE OF SUBSTANCE: Industrial / Laboratory chemicals Chemical for synthesis
Chemical for synthesis

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).

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

R11: Highly flammable.

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

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.

PICTOGRAMS:



SIGNAL WORD: Danger

HAZARD DETERMINING COMPONENTS OF LABELLING:

HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

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.

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

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

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

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

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

HAZARD DESCRIPTION:

WHMIS-SYMBOLS:

B2-Flammable liquid.

NFPA-ratings (scale 0 – 4)

Health	0
Flammability	2
Reactivity	0

HMIS-ratings (scale 0 – 4)

Health	0
Flammability	2
Reactivity	0
Personal Protection	H

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: Methyltrimethoxysilane

CAS-No.: 1185-55-3

EC-No.: 214-685-0

Hazardous components:

COMPONENT	CLASSIFICATION	CONCENTRATION
None.	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.

BREATHING (INHALATION): Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing.

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

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

4.2 Most important symptoms and effects, both acute and delayed

Slight irritant effect on eyes.

Nausea in case of ingestion.

Slight irritant effect on skin and mucous membranes.

May cause gastro-intestinal irritation if ingested.

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:

Alcohol resistant foam.

Fire-extinguishing powder.

Gaseous extinguishing agents.

Foam.

Water haze or fog.

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

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

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Keep away from ignition sources.
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

Keep away from heat and direct sunlight.
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Prevent formation of aerosols.

Information about fire – and explosion protection:

Highly flammable liquid and vapour.
Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.
Flammable gas-air mixtures may form in empty receptacles.

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.
Store below 77 F (25 C)

Information about storage in one common storage facility:

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

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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

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.

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:

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

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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:	Colourless
Odour:	Not determined.
Odour threshold:	Not determined.
pH value:	Not determined.
Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	102 - 104 °C
Flash point:	16 °C (PMCC)
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:	Not determined.
Density at 25 °C:	0.76 g/cm ³ (6.342 lbs/gal)
Relative density:	0.955 g/cm ³ at 25° C
Vapour density at 20 °C	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with Water:	Not determined.
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.

10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour.

Reacts with oxidizing agents.

Reacts with acids.

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

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

10.4 Conditions to avoid

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

Moisture

Avoid acids.

Store away from oxidizing agents.

10.5 Incompatible materials:

Oxidizers, strong bases, strong acids

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.

Silicon Oxides (SiO_x)

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (LD/LC50 values):

Ingredient	CAS Number	Data Type	Value
Methyltrimethoxysilane	1185-55-3	Oral LD50	11749 mg/kg (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:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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 (Methyltrimethoxysilane)
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 1L (0.3 gal).



ADR
UN Number: UN1993
Proper shipping name: 1993 FLAMMABLE LIQUID, N.O.S. (METHYLTRIMETHOXYLANE)
Hazard class: 3 (F1) Flammable liquids.
Label: 3
Packing group: II
Limited quantities: 1L
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: UN1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (METHYLTRIMETHOXYLANE)
Hazard class: 3 Flammable liquids.
Label: 3
Packing group: II
Limited quantities: II



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



14.2 Environmental hazards:
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Marine pollutant: No
14.3 Special precautions for user: Warning: Flammable liquids.
Danger code: 33
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. (Methyltrimethoxysilane), 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):

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 not 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

EINECS: European Inventory of Existing Commerical Chemical Substances

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

Sources

SDS Prepared by:

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