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-733**
PRODUCT NUMBER: C-0263-BULK
DESCRIPTION: TRIMETHYLETHOXYSILANE
CAS NUMBER: 1825-62-3
EC NUMBER: 217-370-6

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

No further relevant information available.

USE OF SUBSTANCE: Industrial / 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).
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause repiratory irritation.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R22:Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
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 substance is classified and labelled according to the CLP regulation.
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 Globally Harmonised System (GHS).

PICTOGRAMS:

SIGNAL WORD: Danger

HAZARD DETERMINING COMPONENTS OF LABELLING:
ethoxytrimethysilane

HAZARD STATEMENTS
H302 Harmful if swallowed.
H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P261 Avoid breathing mist/vapours/spray.
P233 Keep container tightly closed.
P264: Wash thoroughly after handling.
P370+P378: In case of fire: Use foam, powder or carbon dioxide for extinction.
P270 Do not eat, drink or smoke when using this product.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
P271 Use only outdoors or in a well-ventilated area.
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
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.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P403+P235: Store in a well ventilated place. Keep cool.
HAZARD DESCRIPTION:
WHMIS-SYMBOLS:
B2-Flammable liquid.
D1B- Very toxic material causing immediate and serious toxic effects.
D2B-Toxic material causing other toxic effects.

NFPA-ratings (scale 0 – 4)

Health	2
Flammability	3
Reactivity	0

HMIS-ratings (scale 0 – 4)

Health	2
Flammability	3
Reactivity	0
Personal Protection	G

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: ethoxytrimethylsilane
CAS-No.: 1825-62-3
EC-No.: 217-370-6

Hazardous components:

COMPONENT	CLASSIFICATION	CONCENTRATION
N/A	N/A	N/A

4 – FIRST-AID MEASURES

4.1 Description of first aid measures

GENERAL INFORMATION: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. 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. Provide oxygen treatment if affected person has difficulty breathing.

SKIN (DERMAL): Immediately wash with soap and water and rinse thoroughly.
If skin irritation continues, 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.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Irritant to eyes.
Coughing.
Difficulty breathing
Nausea in case of ingestion.

May cause respiratory irritation.
May cause gastro-intestinal irritation if ingested.
HAZARDS: Harmful if swallowed.
4.3 Indication of any immediate medical attention and special treatment needed
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.

5 – FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents:
Water haze or fog.
Foam.
Alcohol resistant foam.
Carbon dioxide.
Fire-extinguishing powder.
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 fog or haze.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
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 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.)
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
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.
Prevent formation of aerosols.
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Information about fire – and explosion protection:

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

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.
Store away from oxidizing agents.
Protect from humidity and water.
Do not store together with acids.
Do not store together with alkalis (caustic solutions).

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.
Keep away from foodstuffs, beverages and feed.
Do not inhale gases / fumes / aerosols.
Immediately remove all soiled and contaminated clothing.

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:
Protective work 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 PROPERITES

9.1 Information on basic physical and chemical properties

General Information

Appearance:	
Form:	Liquid.
Colour:	Colourless
Odour:	Like alcohol
Odour threshold:	Not determined.
pH value:	Not determined.
Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	167-169 ° F / 75-76 ° C
Flash point:	-5 ° C (23 ° F) (PMCC)
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:	533 hPa (400 mm Hg)
Density at 25 °C:	0.76 g/cm^3 (6.342 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:	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.
Moist conditions
10.3 Possiblility of hazardous reactions
Reacts with oxidizing agents.
Highly flammable liquid and vapour.
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.
Reacts with water.
Reacts with alkali (lyes).
Reacts with acids.
10.4 Conditions to avoid
Store away from oxidizing agents.
Keep ignition sources away - Do not smoke.
Moisture
Avoid acids.
10.5 Incompatible materials:
Oxidizers, strong bases, strong acids
Water
10.6 Hazardous decomposition products:
Sulphur oxides (SOx)
Carbon monoxide and carbon dioxide.

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: Irritant to skin and mucous membranes.
On the eye: May cause mild to severe irritation.
Subacute to chronic toxicity
May be fatal is swallowed and enters airways.
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:
Irritant
Acute effects (acute toxicity, irritation and corrosivity):
Harmful if swallowed.
Irritating to respiratory system.

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:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
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
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. 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. 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:	UN1993
Proper shipping name:	Flammable liquids, n.o.s. (ethoxytrimethylsiloxane)
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. (ETHOXYTRIMETHYLSILANE)
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. (ETHOXYTRIMETHYLSILANE)
Hazard class: 3 Flammable liquids.
Label: 3
Packing group: II
imited quantities: II
Excepted quantities: Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

IATA
UN Number: UN1993
Proper shipping name: Flammable liquid, n.o.s. (ethoxytrimethylsiloxane)
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-E
Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code: Not applicable
UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N. O. S. (ethoxytrimethylsiloxane) 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:
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)
PNEC: Predicted No-Effect Concentration (REACH)
EINECS: European Inventory of Existing Commerical Chemical Substances
STOT SE 3: Specific target organ toxicity- Single exposure, Hazard Category 3
LD50: Lethal dose, 50 percent
Acute Tox.4: Acute toxicity, Hazard Category 4
LC50 Lethal concentration, 50 percent

Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
Skin irrit. 2 Skin corrosion/irritaton, Hazard Category 2
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

Sources
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