

GT TRIM COATING

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Mixture
 Product name : GT TRIM COATING
 Product code : GT4350

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

Use of the substance/mixture : Rim and caliper coating

1.3. Details of the supplier of the safety data sheet

Gliptone Manufacturing Inc.
 1740 Julia Goldbach Avenue
 Ronkonkoma, NY 11779 - United States of America
 T 1-631-285-7250 - F 1-631-589-5487
www.gliptone.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 International: 1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 2	H225 - Highly flammable liquid and vapour
Acute Tox. 4 (Inhalation:dust,mist)	H332 - Harmful if inhaled
Acute Tox. 4 (Oral)	H302 - Harmful if swallowed
Skin Irrit. 2	H315 - Causes skin irritation
Eye Irrit.2A	H319 - Causes serious eye irritation
STOT RE 2	H373 - May cause damage to organs through prolonged or repeated exposure
	H361f - Suspected of damaging fertility

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H225 - Highly flammable liquid and vapor
 H302 - Harmful if swallowed
 H332 - Harmful if inhaled
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H373 - May cause damage to organs through prolonged or repeated exposure
 H361f - Suspected of damaging fertility

Precautionary statements (GHS-US) :

: P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical/ventilating/lighting/... equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash ... thoroughly after handling
 P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352 - If on skin: Wash with plenty of water/...
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a poison center/doctor/... if you feel unwell
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see ... on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use ... to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Solvent naphtha, (petroleum) medium aliph	(CAS No) 64742-88-7	40-60	STOT RE 1, H372 Asp. Tox. 1, H304
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	1-10	Flam. Liq. 3, H226 Rep. 2/H361f Aquatic Chronic 4 / H413
Organic polysilazane	(CAS No) 475645-84-2	1-5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Obtain medical attention.
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash skin thoroughly with mild soap and water. Wash clothing before re-using. If irritation persists, consult a doctor.
First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice.
First-aid measures after ingestion : Do NOT induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Can occur: irritation.
Symptoms/injuries after skin contact : Can occur: irritation.
Symptoms/injuries after eye contact : Can occur: irritation.
Symptoms/injuries after ingestion : Can occur: irritation. Aspiration hazard. Fatal if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water fog.
Unsuitable extinguishing media : Do not use water jet.

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable liquid. Vapors may travel long distances along ground before igniting/flashing back to vapor source.
- Explosion hazard : Keep away from ignition sources (including static discharges).
- Reactivity : Stable under normal conditions.

5.3. Advice for firefighters

- Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product. Will float and can be reignited on water surface. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Combustion produces irritating gases. Carbon oxides (CO, CO₂). Silicon oxides. Formaldehyde.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep public away.

6.1.1. For non-emergency personnel

- Protective equipment : Use chemically protective clothing. The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves, they should be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, and respiratory protection specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and Breathing Apparatus or respirator.
- Emergency procedures : NO open flames, NO sparks, and NO smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Eliminate ignition sources.
- Methods for cleaning up : Notify authorities if product enters sewers or public waters. Stop leak without risks if possible. Collect the residue by means of a non-combustible absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Harmful liquid. Extremely flammable liquid.
- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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Safe use of the product

- : Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.
- Hygiene measures
- : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

- : Ground/bond container and receiving equipment.

Storage conditions

- : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Storage area

- : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

Special rules on packaging

- : Always keep in containers made of the same material as the supply container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

- : Ensure good ventilation of the work station.

Hand protection

- : Impermeable protective gloves. Wear long sleeves. Use protective clothing.

Eye protection

- : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

- : Wear suitable protective clothing.

Respiratory protection

- : In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

- : Avoid release to the environment.

Other information

- : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

- : Liquid

Color

- : Mixture contains one or more component(s) which have the following colour(s):
Different

Odor

- : Mixture contains one or more component(s) which have the following odour(s):
Solvent

Odor threshold

- : No data available

pH

- : No data available

Melting point

- : Not applicable

Freezing point

- : No data available

Boiling point

- : ≈ 64.6 °C

Flash point

- : 44 °C

Relative evaporation rate (butyl acetate=1)

- : No data available

Relative evaporation rate (ether=1)

- : 0.973

Flammability (solid, gas)

- : No data available

Explosion limits

- : ≥ 1.1 vol %

Explosive properties

- : No data available

Oxidizing properties

- : No data available

Vapor pressure

- : 9.8 mm Hg

Relative density

- : 0.813

Relative vapor density at 20 °C

- : 3.8

Solubility

- : insoluble in water.

Log Pow

- : No data available

Auto-ignition temperature

- : 645.2 K

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Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

VOC content	: > 90 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

If heated, risk of ignition.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Keep away from: strong acids, strong bases and oxidation agents. Attacks many plastics, rubber, coatings.

10.6. Hazardous decomposition products

Combustion produces irritating gases. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Name	CAS No	Exposure Route	ATE
organic polysilazane compound	475645-84-2	oral	301 mg/kg

Likely routes of exposure : Skin contact.; Eyes contact.; Inhalation; Ingestion.

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Suspected to damage fertility.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Can occur: irritation.

Symptoms/injuries after skin contact : Can occur: irritation.

Symptoms/injuries after eye contact : Can occur: irritation.

Symptoms/injuries after ingestion : Can occur: irritation. Aspiration hazard. Fatal if swallowed.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Do not discharge into drains or the environment. Do not discharge into surface water.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. .

EFFECT OF MATERIAL ON AQUATIC LIFE:

The most sensitive known aquatic group to any component of this product is:

Fish are adversely affected by components of this product.

The substance is toxic to aquatic organisms.

Bioaccumulation of this chemical may occur in aquatic animals.

Environmental effects of the substance have not been investigated adequately.

Acute Name	CAS No	Endpoint	Value	Species	Exposure Time
octamethylcyclotetrasiloxane	556-67-2	LC50	>22 µg/l	fish	96 h
octamethylcyclotetrasiloxane	556-67-2	EC50	>1000 mg/l	aquatic invertebrates	96 h
organic polysilazane compound	475645-84-2	LC50	57.1 mg/l	zebra fish	96 h

Chronic Name	CAS No	Endpoint	Value	Species	Exposure Time
octamethylcyclotetrasiloxane	556-67-2	LC50	10 µg/l	fish	14 d
octamethylcyclotetrasiloxane	556-67-2	EC50	>500 mg/l	aquatic invertebrates	24 h

12.2. Persistence and degradability

Degradability Name	CAS No	Process	Degradation Time	Time
octamethylcyclotetrasiloxane	556-67-2	carbon dioxide generation	3.7 %	29 d

12.3. Bioaccumulative potential

Bioaccumulativity Name	CAS No	Process	Degradation Time	Time
octamethylcyclotetrasiloxane	556-67-2	12400	6.488 (25.1 °C)	

12.4. Mobility in soil

Data not available.

12.5. Other adverse effects

Effect on the global warming

: No known ecological damage caused by this product.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled.
Incineration or landfill should only be considered when recycling is not feasible.
This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE USED CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.
ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D001.

Additional information

: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

14.1	UN number	2924
14.2	UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	Hazardous ingredients	Organic polysilazane compound, Octamethylcyclotetrasiloxane
14.3	Transport hazard class(es)	
	Class	3 (flammable liquids)
	Subsidiary risk(s)	8 (corrosive effects)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user	Provisions for dangerous goods (ADR) should be complied within the premises.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	2924
Proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Class	3
Classification code	FC
Packing group	III
Danger label(s)	3+8



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Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Tunnel restriction code (TRC) D/E

Hazard identification No 38

Emergency Action Code 3WE

• **International Maritime Dangerous Goods Code (IMDG)**

UN number 2924

Proper shipping name FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Class 3

Subsidiary risk(s) 8

Packing group III

Danger label(s) 3+8



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-E, S-C

Stowage category A

• **International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number 2924

Proper shipping name Flammable liquid, corrosive, n.o.s.

Class 3

Subsidiary risk(s) 8

Packing group III

Danger label(s) 3+8



Special provisions (SP) A3, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 1 L

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
SARA TITLE III

List of Extremely Hazardous Substances No Ingredients Listed
Specific Toxic Chemical Listings No Ingredients Listed

CERCLA
Hazardous Substances No Ingredients Listed
Clean Air Act No Ingredients Listed

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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes Serious eye irritation
H315	Causes skin irritation
H332	Harmful if inhaled
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

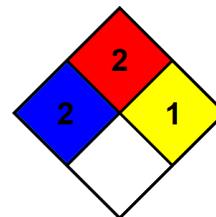
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product