

SAFETY DATA SHEET

1. Identification		
Product identifier: TSE397-C		
Other means of identification Synonyms:	SIL	ICONE RUBBER SEALANT
Recommended use and restri	ctio	n on use
Recommended use: Silicon Restrictions on use: Not kn	e El own	lastomer I.
Manufacturer/Importer/Distr ibutor Information	:	Momentive Performance Materials USA LLC 2750 Balltown Road, Niskayuna, NY 12309
Contact person	:	commercial.services@momentive.com
Telephone	:	General information +1-800-295-2392
Emergency telephone number Supplier	:	CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards	
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1
Toxic to reproduction	Category 1B

Label Elements

Hazard Symbol:



Version: 2.5 Revision Date: 06/20/2022



TSE397-C

Signal Word:	Danger	
Hazard Statement:	H316; Causes mild skin irritation. H319; Causes serious eye irritation. H317; May cause an allergic skin reaction. H360FD; May damage fertility. May damage the unborn child.	
Precautionary Statements		
Prevention:	Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.	
Response:	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.	
Storage:	Store locked up.	
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.	
Hazard(s) not otherwise classified (HNOC):	None.	
Substance(s) formed under the conditions of use:	Generates methanol during cure.	

3. Composition/information on ingredients



Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) Silica	7631-86-9	10 - <20%	# This substance has workplace exposure limit(s).
CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	134759-20-9	1 - <3%	No data available.
gamma- Aminopropyltriethoxysilane	919-30-2	0.1 - <1%	No data available.
Dibutyltin Dilaurate	77-58-7	0.3 - <1%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%	No data available.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.	
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.	
Skin Contact:	Wash with soap and water. Get medical attention if symptoms occur.	
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
Most important symptoms/effects	s, acute and delayed	
Symptoms:	Product may hydrolyse upon contact with body fluids in the gastrointestinal tract to produce additional methanol; therefore, consider the signs/symptoms of methanol poisoning and also observe the known latency period of several days!	
Hazards:	No data available.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treatment is symptomatic and supportive.	
5. Fire-fighting measures		



General Fire Hazards:	Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.	
Suitable (and unsuitable) extingu	ishing media	
Suitable extinguishing media:	All standard extinguishing agents are suitable.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	Reacts with water liberating small amounts of methanol. In case of fire, carbon monoxide and carbon dioxide may be formed. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.	
Special protective equipment and	d precautions for fire-fighters	
Special fire-fighting procedures:	Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep container closed. Avoid contact with skin and eyes. Keep out of reach of children. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.
Notification Procedures:	In case of spills, beware of slippery floors and surfaces. Stop the flow of material, if this is without risk. Keep unprotected persons away. See Section 8 of the SDS for Personal Protective Equipment.
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground.



7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is not expected. Methanol is formed during processing. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Do not get in eyes, on skin, on clothing. Do not taste or swallow. See Section 8 of the SDS for Personal Protective Equipment. Use only with adequate ventilation.
Conditions for safe storage, including any incompatibilities:

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
(1) Silica - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
(1) Silica - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
(1) Silica	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	IDLH	3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
(1) Silica - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Silica - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Silica - Total dust.	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019)
(1) Silica - Respirable fraction.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (12 2017)
(1) Silica - Total dust.	TWA PEL	10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (12 2017)
(1) Silica - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
(1) Silica - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
(1) Silica - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
Dibutyltin Dilaurate - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)



	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	TWA PEL	0.1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	STEL	0.2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
Dibutyltin Dilaurate - Particulate.	AN ESL	0.1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
Dibutyltin Dilaurate	IDLH	25 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)

Appropriate Engineering	Eye wash facilities and emergency	shower	must be available	when
Controls	handling this product.			

Individual protection measures, such as personal protective equipment

General information:	Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection:	Use chemical-resistant, impervious gloves.
Other:	Wear suitable protective clothing and eye/face protection.
Respiratory Protection:	If inhalation exposure is expected, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat or drink.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Faint
Odor threshold:	No data available.
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pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range :	No data available.
Flash Point:	198 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	/e limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Heat of combustion:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	ca. 1.04 g/cm3
Relative density:	> 1
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	50,000 mPa·s (23 °C)
Viscosity, kinematic:	> 20.5 mm2/s (40 °C)
VOC:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	High Temperatures Keep away from moisture.
Incompatible Materials:	Moisture. Strong Acids, Strong Bases



Hazardous Decomposition

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Generates methanol during cure. Carbon dioxide Silicon dioxide.

Products:	Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
11. Toxicological information	
Information on likely routes of e	exposure
Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Symptoms related to the physic	al, chemical and toxicological characteristics
Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral	
Product:	ATEmix: 210,607.09 mg/kg
Specified substance(s): (1) Silica	LD 50 (Rat): > 15,000 mg/kg
CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	LD 50 (Rat, male and female): 4,666 mg/kg
Dibutyltin Dilaurate	LD 50 (Rat, male and female): 2,071 mg/kg

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Octamethylcyclotetrasilox LD 50 (Rat): > 4,800 mg/kg

Not classified for acute toxicity based on available data.



Specified substance(s): DibutyItin Dilaurate	LD 50 (Rat,): > 2,000 mg/kg	
Octamethylcyclotetrasilox ane	LD 50 (Rat): > 2,375 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): DibutyItin Dilaurate	LC50 (Rat,): 10 mg/l	
Octamethylcyclotetrasilox ane	LC50 (Rat): 36 mg/l	
Repeated dose toxicity Product:	No data available.	
Specified substance(s): gamma- Aminopropyltriethoxysilan e	NOAEL (Rat): 200 mg/kg/d	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irritatio Product:	on No data available.	
Respiratory or Skin Sensitizatior Product:	No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:		

No carcinogenic components identified US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components identified



Germ Cell Mutagenicity	
In vitro Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)
In vivo Product:	No data available.
Specified substance(s): gamma- Aminopropyltriethoxysilan e	Micronucleus test (mouse) (Similar to OECD 474): negative (not mutagenic)
Specified substance(s): Octamethylcyclotetrasilox ane	Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product: Specific Target Organ Toxicity - Product:	Single Exposure No data available. Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.
12. Ecological information	
Ecotoxicity:	
Acute hazards to the aquatic e	environment:
Fish Product:	No data available.
Specified substance(s): (1) Silica	LC0 (Brachydanio rerio, 96 h): 5,000 mg/l
gamma- Aminopropyltriethoxysilan	LC 50 (96 h): > 110 mg/l
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Octamethylcyclotetrasilox	LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l
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Aquatic Invertebrates Product:	No data available.
Specified substance(s): gamma- Aminopropyltriethoxysilan e	EC50 (Daphnia, 48 h): > 100 mg/l
Dibutyltin Dilaurate	EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water
Octamethylcyclotetrasilox ane	EC50 (Daphnia magna, 48 h): > 0.015 mg/l

Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): (1) Silica	LC0 (Brachydanio rerio, 4 d): 5,000 mg/l
Octamethylcyclotetrasilox ane	NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l No toxicity at the limit of solubility
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	NOEC (Daphnia magna, 21 d): > 0.015 mg/l
Toxicity to Aquatic Plants Product:	No data available.
Specified substance(s): gamma- Aminopropyltriethoxysilan e	EC50 (72 h): > 3.6 mg/l
Octamethylcyclotetrasilox ane	ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s):	



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Dibutyltin Dilaurate	23 % (39 d) The product is not readily biodegradable.
Octamethylcyclotetrasilox ane	3.7 % (29 d, 310 Ready Biodegradability - CO_2 in Sealed Vessels (Headspace Test)) Not readily biodegradable.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Bioconcentration Factor (BCF): 12,400
Partition Coefficient n-octan	ol / water (log Kow)
Product:	No data available.
Specified substance(s): gamma- Aminopropyltriethoxysilan e	Log Kow: -0.3 (calculated)
Mobility in soil:	No data available.
Known or predicted distribut	ion to environmental compartments
CYCLOPENTYLSILAZANE -AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-	No data available.
Dibutyltin Dilaurate	No data available.
Octamethylcyclotetrasiloxa ne	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
General information:	The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product.
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14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

Special precautions for user:	This product is not regarded as dangerous goods according to the	
	national and international regulations on the transport of	
	dangerous goods.	

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

<u>Chemical Identity</u> METHYLPOLYSILOXAN	<u>OSHA hazard(s)</u> No OSHA Hazards
E Polydimethylsiloxane	No OSHA Hazards
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Causes mild skin irritation.; Corrosive to eyes

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation Serious eye damage or eye irritation

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Respiratory or Skin Sensitization Reproductive toxicity

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

SARA 304 Emergency Release Notification None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical Chemical Identity Threshold Planning Quantity

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity METHYLPOLYSILOXANE Polydimethylsiloxane (1) Silica CYCLOPENTYLSILAZANE -AMINOSILOXANE COPOLYMER, METHOXY TERMINATED Methyltrimethoxysilane

US. Massachusetts RTK - Substance List <u>Chemical Identity</u> (1) Silica

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) Silica

US. Rhode Island RTK Chemical Identity

(1) Silica

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Inventory Status:

Australia AICS:	t (temporary special case)	Remarks: None.
Canada DSL Inventory List:	q (quantity restricted)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inv. Existing Chemical	y (positive listing)	Remarks: None.
Substances:		
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: Commercial Status:
		Active
Taiwan Chemical Substance	y (positive listing)	Remarks: None.
Inventory:		
REACH:	If purchased from Momentive	Remarks: None.
	Performance Materials GmbH in	
	Leverkusen, Germany, all	
	substances in this product have	
	been registered by Momentive	
	Performance Materials GmbH or	
	upstream in our supply chain or are	
	exempt from registration under	
	Regulation (EC) No 1907/2006	
	(REACH). For polymers, this	
	includes the constituent monomers	
	and other reactants.	

16.Other information, including date of preparation or last revision

HMIS Hazard ID

Health	*	2
Flammability		1
Physical Hazards		1
PERSONAL PROTECTION	ON	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date:	06/20/2022
Revision Date:	No data available.
Version #:	2.5
Further Information:	No data available.
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Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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