

Revision Date: 06/20/2022

TSE397-C

SAFETY DATA SHEET

1. Identification

Product identifier: TSE397-C

Other means of identification

SILICONE RUBBER SEALANT Synonyms:

Recommended use and restriction on use

Recommended use: Silicone Elastomer

Restrictions on use: Not known.

ibutor Information

Manufacturer/Importer/Distr : 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:



SDS_US 1/16



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

SDS_US 2/16



Revision Date: 06/20/2022

TSE397-C

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.
DibutyItin 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, 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

SDS_US 3/16



Revision Date: 06/20/2022

TSE397-C

General Fire Hazards:

Prevent runoff from fire control or dilution from entering streams, sewers, or

drinking water supply.

Suitable (and unsuitable) extinguishing 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 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 selfcontained 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.

SDS_US 4/16



Revision Date: 06/20/2022

TSE397-C

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:

Store in original tightly closed container. Keep in a cool, ventilated location far from heat source and flame Keep away from food, drink and animal feeding stuffs.

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)

SDS_US 5/16



Revision Date: 06/20/2022

TSE397-C

	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)
	STESL	1 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
Dibutyttin Dilaurate	IDLH	25 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)

Appropriate Engineering

Controls

Eye wash facilities and emergency shower must be available when

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

Colorless

Color:

Faint

Odor threshold:

No data available.

SDS_US

Odor:



Revision Date: 06/20/2022

TSE397-C

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 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 No data available.

Pow:

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



Revision Date: 06/20/2022

TSE397-C

Hazardous Decomposition

Products:

Generates methanol during cure. Carbon dioxide Silicon dioxide.

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 exposure

Ingestion:

No data available.

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Symptoms related to the physical, 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 effects

Acute toxicity (list all possible 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

LD 50 (Rat, male and female): 4,666 mg/kg

COPOLYMER,
METHOXY
TERMINATED

Dibutyltin Dilaurate

LD 50 (Rat, male and female): 2,071 mg/kg

Octamethylcyclotetrasilox

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

ane

Dermal

Product: Not classified for acute toxicity based on available data.

SDS_US



Revision Date: 06/20/2022

TSE397-C

Specified substance(s):

Dibutyltin Dilaurate

LD 50 (Rat,): > 2,000 mg/kg

Octamethylcyclotetrasilox

LD 50 (Rat): > 2,375 mg/kg

ane

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Dibutyltin Dilaurate

LC50 (Rat,): 10 mg/l

Octamethylcyclotetrasilox

ane

LC50 (Rat): 36 mg/l

Repeated dose toxicity

Product:

No data available.

Specified substance(s):

gamma-

NOAEL (Rat): 200 mg/kg/d

Aminopropyltriethoxysilan

е

Skin Corrosion/Irritation

Product:

No data available.

Serious Eye Damage/Eye Irritation

Product:

No data available.

Respiratory or Skin Sensitization

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

SDS_US 9/16



Revision Date: 06/20/2022

TSE397-C

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-

Micronucleus test (mouse) (Similar to OECD 474): negative (not mutagenic)

Aminopropyltriethoxysilan

е

Specified substance(s):

Octamethylcyclotetrasilox

Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative

ane

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Reproductive toxicity

Product:

No data available.

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

(1) Silica

LC0 (Brachydanio rerio, 96 h): 5,000 mg/l

gamma-

LC 50 (96 h): > 110 mg/l

Aminopropyltriethoxysilan

SDS_US 10/16



Revision Date: 06/20/2022

TSE397-C

е

Octamethylcyclotetrasilox

LC50 (Oncorhynchus mykiss, 96 h): > 0.022 mg/l

ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

gamma-

EC50 (Daphnia, 48 h): > 100 mg/l

Aminopropyltriethoxysilan

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 NOEC (Da

ane

NOEC (Daphnia magna, 21 d): > 0.015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

gamma-

EC50 (72 h): > 3.6 mg/l

Aminopropyltriethoxysilan

Octamethylcyclotetrasilox

ErC50 (Selenastrum capricornutum, 96 h): > 0.022 mg/l

ane

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

SDS_US 11/16



Revision Date: 06/20/2022

TSE397-C

Dibutyltin Dilaurate

23 % (39 d) The product is not readily biodegradable.

Octamethylcyclotetrasilox

3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels

(Headspace Test)) Not readily biodegradable.

BOD/COD Ratio

Product:

ane

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:

No data available.

Specified substance(s):

Octamethylcyclotetrasilox

Bioconcentration Factor (BCF): 12,400

ane

Partition Coefficient n-octanol / water (log Kow)

Product:

No data available.

Specified substance(s):

gamma-

Log Kow: -0.3 (calculated)

Aminopropyltriethoxysilan

е

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

(1) Silica

No data available. No data available.

CYCLOPENTYLSILAZANE

-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

gamma-

No data available.

Aminopropyltriethoxysilane

Dibutyltin Dilaurate

No data available.

Octamethylcyclotetrasiloxa

No data available.

ne

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.

SDS_US



Revision Date: 06/20/2022

TSE397-C

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

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

Chemical Identity

OSHA hazard(s)
No OSHA Hazards

METHYLPOLYSILOXAN

No OSHA Hazards

Polydimethylsiloxane

NO OSHA Hazaius

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

SDS_US 13/16



Revision Date: 06/20/2022

TSE397-C

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

Chemical Identity

(1) Silica

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) Silica

US. Rhode Island RTK

Chemical Identity

(1) Silica

SDS_US 14/16



Revision Date: 06/20/2022

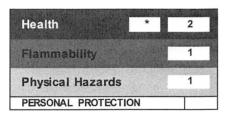
TSE397-C

Inventory Status:

iveniory 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:	7.7 3.7.75		
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 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	Remarks: None.	
	includes the constituent monomers and other reactants.		

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

HMIS Hazard ID



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.

SDS_US



Revision Date: 06/20/2022

TSE397-C

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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