

Revision Date: 06/03/2019

TSE399-C

SAFETY DATA SHEET

1. Identification

Product identifier: TSE399-C

Other means of identification

Synonyms: 1 PART LOW VISCOSITY - ALKOXY

Recommended use and restriction on use

Recommended use: Silicone Elastomer **Restrictions on use:** For industrial use only.

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 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Toxic to reproduction Category 1B

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Label Elements

Hazard Symbol:

SDS_US 1/15



Revision Date: 06/03/2019

TSE399-C



Signal Word: Danger

Hazard Statement: H315; Causes skin irritation.

H319; Causes serious eye irritation. H317; May cause an allergic skin reaction. H360; May damage fertility or the unborn child.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use

personal protective equipment as required.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment

(see on this label). Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

Substance(s) formed under the

conditions of use:

Generates methanol during cure.

3. Composition/information on ingredients

SDS_US 2/15



Revision Date: 06/03/2019

TSE399-C

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) Silica	7631-86-9	5 - <10%	# This substance has workplace exposure limit(s).
CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	134759-20-9	1 - <3%	No data available.
1-PROPANAMINE, 3- (TRIETHOXYSILYL)-	919-30-2	0.1 - <1%	# This substance has workplace exposure limit(s).
Dibutyltin Dilaurate	77-58-7	0.1 - <0.3%	# This substance has workplace exposure limit(s).

^{*} 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

SDS_US 3/15

⁽¹⁾ The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.



Revision Date: 06/03/2019

TSE399-C

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) 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 firefighters

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 4/15



Revision Date: 06/03/2019

TSE399-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:

Keep container tightly closed in a cool, well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chamical Identity	Туре	Exposure Limit Values	Source
Chemical Identity	Type	Exposure Limit values	Source
(1) Silica	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical
	T) A / A	0	Hazards (2010)
	TWA	6 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	6 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
(1) Silica - Particulate.	ST ESL	27 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
(1) Silica	TWA	20 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000)
		particles per	(2000)
		cubic foot of	
		air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	IDLH	3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Dibutyltin Dilaurate - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
-	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Dibutyltin Dilaurate - Particulate.	AN ESL	0.1 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Dibutyltin Dilaurate - as Sn	TWA PEL	0.1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	0.2 mg/m3	US. California Code of Regulations, Title 8,

SDS_US 5/15



Revision Date: 06/03/2019

TSE399-C

			Section 5155. Airborne Contaminants (01 2015)
Dibutyltin Dilaurate	IDLH	25 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

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: Chemical resistant gloves

Other: Wear suitable protective clothing and eye/face protection.

Respiratory Protection: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to

dust/fume at levels exceeding the exposure limits.

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: Paste
Color: Colorless
Odor: Faint

Odor threshold:

pH:

No data available.

No data available.

No data available.

No data available.

Not applied

Initial boiling point and boiling range: Not applicable

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.

No data available.

No data available.

SDS_US 6/15



Revision Date: 06/03/2019

TSE399-C

Explosive limit - upper (%):

Explosive limit - lower (%):

Heat of combustion:

No data available.

No data available.

Vapor pressure: No data available.

Vapor density:No data available.Density:1.04 g/cm3 (25 °C)Relative density:No data available.

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:No data available.Viscosity, kinematic:> 20.5 mm2/s (40 °C)

Other information

Minimum ignition temperature: 450 °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 polymerisation does not occur.

Conditions to avoid: Avoid high temperatures and moisture.

Incompatible Materials: Moisture. Strong Acids, Strong Bases

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.

SDS_US 7/15



Revision Date: 06/03/2019

TSE399-C

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: Not classified for acute toxicity based on available data.

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

Dermal

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

Specified substance(s):

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

Inhalation

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

Specified substance(s):

Dibutyltin Dilaurate LC50 (Rat,): 10 mg/l

Repeated dose toxicity

Product: No data available.

SDS_US 8/15



Revision Date: 06/03/2019

TSE399-C

Specified substance(s):

1-PROPANAMINE, 3- NOAEL (Rat, Oral, 90 d): 200 mg/kg

(TRIETHOXYSILYL)-

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):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

1-PROPANAMINE, 3- Ames-Test: negative

(TRIETHOXYSILYL)- Chinese Hamster Ovary (CHO): negative

In vivo

Product: No data available.

Specified substance(s):

1-PROPANAMINE, 3- Micronucleus test (mouse): negative

(TRIETHOXYSILYL)-

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

SDS_US 9/15



Revision Date: 06/03/2019

TSE399-C

Product: No data available.

Other effects: Contains dibutyl tin dilaurate which may cause birth defects and

reproductive effects based on animal data.

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

1-PROPANAMINE, 3- LC50 (Brachydanio rerio, 96 h): > 934 mg/l (TRIETHOXYSILYL)-

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

1-PROPANAMINE, 3- EC50 (Daphnia magna, 48 h): 331 mg/l (TRIETHOXYSILYL)-

Dibutyltin Dilaurate EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water

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

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

1-PROPANAMINE, 3- EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l NOEC (Desmodesmus subspicatus (green algae), 72 h): 1.3 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

SDS_US 10/15



Revision Date: 06/03/2019

TSE399-C

Specified substance(s):

1-PROPANAMINE, 3-(TRIETHOXYSILYL)- 67 % (28 d) Not readily degradable. hydrolyses

(TRIETHOXTSILTE)-

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

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

(1) Silica No data available. CYCLOPENTYLSILAZANE No data available.

-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

1-PROPANAMINE, 3- No data available.

(TRIETHOXYSILYL)-

Dibutyltin Dilaurate 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. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal instructions: Disposal should be made in accordance with federal, state and local

regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

SDS_US 11/15



Revision Date: 06/03/2019

TSE399-C

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.

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
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

International Identity Identical			

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

SDS_US 12/15



Revision Date: 06/03/2019

TSE399-C

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

Polyalkylalkoxysiloxane
Polydimethylsiloxane
(1) Silica
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER,
METHOXY TERMINATED
Methyltrimethoxysilane
Dibutyltin Dilaurate

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) Silica

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

SDS_US 13/15



Revision Date: 06/03/2019

TSE399-C

Inventory Status:

Australia AICS:	y (positive listing)	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 Inventory of Existing	y (positive listing)	Remarks: None.
Chemical Substances:		
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.
(KECI):		
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
New Zealand Inventory of	n (Negative listing)	Remarks: None.
Chemicals:		
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			

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

Issue Date: 06/03/2019

Revision Date: No data available.

Version #: 4.0

SDS_US 14/15



Revision Date: 06/03/2019

TSE399-C

Further Information: No data available.

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.

® and TM indicate trademarks owned by or licensed to Momentive.

SDS_US 15/15