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#### TSE3940

# SAFETY DATA SHEET

# 1. Identification of the hazardous chemical and of the supplier

Product identifier: TSE3940

Recommended use of the chemical and restrictions on use

Recommended use: Silicone Elastomer

Recommended restrictions: For industrial use only.

Details of principal suppliers

Manufacturer/Importer/Distr

ibutor Information

Momentive Performance Materials (Thailand) Limited

1/2 Moo 4, Asia Industrial Estate, Rayong, 21130

Thailand

Contact person : commercial.services@momentive.com

**Telephone** : +66-3899 7899 **Telefax** : +66-3899 7888

**Emergency telephone** 

number

001 800 120 666 751 / +65 3158 1074

Responsible Department : Product Stewardship & Compliance

# 2. Hazard(s) identification

# GHS classification of substance or mixture, and national or regional information:

# **Health Hazards**

Serious Eye Damage/Eye Irritation Category 2

# **Unknown toxicity- Environment**

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 0 %

environment

#### **GHS** label elements

# Hazard symbol(s):



Signal Word: Warning

**Hazard Statement(s):** Causes serious eye irritation.

## Precautionary statement(s):

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

clothing/eye protection/face protection.

**Response:** If eye irritation persists: Get medical advice/attention.

Other hazards which do not result in GHS classification:

None known.

# 3. Composition and information of the ingredients of the hazardous chemical

Chemical nature: Silicone sealant

## **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
TITANIUM DIOXIDE	13463-67-7	10 - <30%
CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	134759-20-9	1 - <3%
gamma- Aminopropyltriethoxysilane	919-30-2	<1%
Dibutyltin Dilaurate	77-58-7	<1%
Octamethylcyclotetrasiloxane	556-67-2	<1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

#### Description of necessary first-aid measures

**Inhalation:** If inhaled, move victim to fresh air and seek medical attention.

**Skin Contact:** Wash with soap and water.

**Eye contact:** Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Ingestion Call a physician or poison control center immediately. Only induce vomiting

at the instruction of medical personnel. Never give anything by mouth to an unconscious person. 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.

## Most important symptoms/effects, acute and delayed

**Symptoms:** Treatment is symptomatic and supportive.

Hazards: No data available.

## Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

## 5. Fire-fighting measures

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General Fire Hazards: Remove sources of combustibles. Extinguish the fire using fire-fighting

media listed above. Cool surrounding tanks, buildings and so on by

spraying with water to prevent the fire extension.

The fire fighting should be done from the windward side, with suitable

respiratory protective device, if necessary.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

No data available.

Special protective action for fire fighters

Special fire fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

No data available.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep upwind. Keep unprotected

persons away.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up:

Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill

is small.

Notification Procedures: Remove sources of ignition.

## 7. Handling and storage

Precautions to ensure safe handling:

"Wear eye, hand and respiratory protection when in handling." See Section 8 of the SDS for Personal Protective Equipment. Keep away from sources of ignition - No smoking. Ground container and transfer equipment to

eliminate static electric sparks. Protect from moisture. Seal opened containers and use up as soon as possible. Alcohol released during curing.

Use only in well-ventilated areas.

Conditions for safe storage, including any incompatibilities:

Store in a dark, cool place indoors, with container tightly closed.

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# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
TITANIUM DIOXIDE	Time Weighted Average (TWA):	10 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended03 2000
Dibutyltin Dilaurate	Time Weighted Average (TWA):	0.1 mg/m3	Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations), as amended03 2000
(1) TITANIUM DIOXIDE	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
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)

# **Biological Limit Values**

None of the components have assigned exposure limits.

Appropriate Engineering

Controls:

Provide adequate general and local exhaust ventilation. Eyewash bottle with

clean water.

# Individual protection measures, such as personal protective equipment

General information: Use only in well-ventilated areas. Wear suitable gloves and eye/face

protection.

**Eye/face protection:** Safety glasses with side shields

**Skin Protection** 

Hand Protection: Chemical resistant gloves Rubber or plastics gloves

Other: Chemical resistant clothing Safety shoes

**Respiratory Protection:** Gas mask with organic vapor canister and dust and mist filter.

**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

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Color: Gray
Odor: Alcohol

Odor threshold:

pH:

No data available.

No data available.

No data available.

Not applied

Not applied

Not applied

Flash Point:

98 °C

Evaporation rate: No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

Vapor density:No data available.Density:1.46 g/cm3 (25 °C)

Relative density: 1.46

Solubility(ies)

Solubility in water: Insoluble
Solubility (other): Insoluble

Partition coefficient (n-octanol/water) Log

Pow

450 °C

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)

# 10. Stability and reactivity

Auto-ignition temperature:

Reactivity: No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

**Conditions to avoid:** Keep away from heat, sparks and open flame.

Incompatible Materials: Moisture. The catalysis of strong acids or bases cause polymerization or

decomposition.

**Hazardous Decomposition** 

**Products:** 

This product contains methylpolysiloxanes which can generate

formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

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# 11. Toxicological information

General information: In serious cases absorption of methanol in the body may lead to damage to

the eyesight.

Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

Eye contact: No data available.

**Ingestion:** No data available.

**Symptoms** 

**Inhalation:** No data available.

**Skin Contact:** No data available.

Eye contact: No data available.

**Ingestion:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

Specified substance(s):

TITANIUM DIOXIDE LD 50 (Rat): > 10,000 mg/kg

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

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, METHOXY TERMINATED

Dibutyltin Dilaurate LD 50 (Rat): 2,071 mg/kg

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

ane

Dermal

**Product:** No data available.

Specified substance(s):

TITANIUM DIOXIDE LD 50 (Rabbit): > 10,000 mg/kg

Dibutyltin Dilaurate LD 50 (Rat): 750 mg/kg

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LD 50 (Rat): 1,000 mg/kg LD 50 (Rat): > 2,000 mg/kg

Octamethylcyclotetrasilox

ane

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

Inhalation

**Product:** No data available.

Specified substance(s):

TITANIUM DIOXIDE LC50 (Rat, 4 h): > 6.8 mg/l

Octamethylcyclotetrasilox

LC50 (Rat, 4 h): 36 mg/l

ane

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

**ACGIH Sensitization** 

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox 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

ane

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology:

ane Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

**Product:** No data available.

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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: 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.

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

gamma- EC50 (Daphnia magna, 48 h): 331 mg/l

Aminopropyltriethoxysilan

е

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

#### Chronic hazards to the aquatic environment

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

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

**Mobility** 

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

TITANIUM DIOXIDE No data available. CYCLOPENTYLSILAZANE No data available.

-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 information

## Disposal methods

Disposal instructions: Can be incinerated when in compliance with local regulations. This material

is developed and manufactured for industrial applications only.

Contaminated Packaging: Dispose of as unused product.

## 14. Transport information

## **ADR**

Not regulated.

## IATA

Not regulated.

## **IMDG**

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. Protect from moisture. Keep away from food, foodstuff, acids and bases. keep away from odour sensitive

materials

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## Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

# 15. Regulatory information

Malaysia. Medical Surveillance Chemicals, Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health): Schedule 2

Not Regulated

Malaysia. Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order]

Not Regulated

Malaysia. Controlled Precursors Subject to Conditional Exports (Customs (Prohibition of Exports) Order, Second Schedule, as amended

Not Regulated

Malaysia. Controlled Precursors Subject to Conditional Imports (Customs (Prohibition of Imports) Order, Part I of Second Schedule)

Not Regulated

Malaysia. CWC. Chemical Weapons Convention Act 2005, (Schedules 1-3)

Not Regulated

Malaysia. Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993)

Not Regulated

Malaysia. Lists of Halon Management (Environmental Quality (Halon Management) Regulation 1999)
Not Regulated

Malaysia. Refrigerant Hazardous Substance (Environmental Quality (Refrigerant Management) Regulation), as amended

Not Regulated

Malaysia. Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule), as amended Not Regulated

## International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

## Rotterdam convention

Not applicable

## **Kyoto protocol**

Not applicable

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#### **Inventory Status:**

Australia AICS: n (negative listing) 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.

(KECI):

Canada DSL Inventory List: q (quantity restricted) Remarks: None. Canada NDSL Inventory: n (negative listing) Remarks: None. Philippines PICCS: y (positive listing) Remarks: None.

y (positive listing)

US TSCA Inventory: y (positive listing) Remarks: Notice.

Remarks: Notice.

Remarks: On TSCA Inventory

Taiwan Chemical Substance y (positive listing) Remarks: None.

Inventory:

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

**Issue Date:** 2021/05/19

**Revision Date:**No data available. No data available.

Version #: 1.1

**Source of information:** No data available.

Further Information: No data available.

Disclaimer:

## Notice to reader

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## **Further Information**

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