

TSE3941

SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name): TSE3941
Manufacturer : Momentive Performance Materials Japan LLC
 Akasaka Park Building
 5-2-20 Akasaka, Minato-ku
 Tokyo Japan

Distributor Information : DC Products Pty Limited
 Unit 117 45 Gilby Road
 Mount Waverley 3149 Australia

Contact person : Viren Kumar

Telephone : +61 3 95588898

Emergency telephone number Supplier : 61 418 529 118

2 Hazard(s) identification

GHS classification:

Health Hazards	Skin Corrosion/Irritation	Category 3
	Serious Eye Damage/Eye Irritation	Category 2A
	Carcinogenicity	Category 1A
	Specific Target Organ Toxicity - Single Exposure	Category 1
	Specific Target Organ Toxicity - Repeated Exposure	Category 1

GHS label elements

Symbol(s):



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Signal Word: Danger

Hazard Statement(s): Causes serious eye irritation.
 Causes mild skin irritation.
 May cause cancer.
 Causes damage to organs.
 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear eye protection/face protection. Do not breathe vapors. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response: Get medical advice/attention if you feel unwell. IF exposed: Call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/attention. 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.

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.

Main symptoms and emergency overview

Main symptoms: No data available.

Emergency Overview: No data available.

3 Composition/information on ingredients

Chemical nature: Silicone compound

Mixtures

Chemical Identity	CAS number	Concentration*
Silica (Consolidated % of Silica regulated under ISHL)		40 - 50%
TITANIUM DIOXIDE	13463-67-7	10 - 20%

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Polyalkoxyaminosilane	Trade secret	1.0 - 10%
Platinum and its water-soluble salts	Trade secret	0.1 - 1.0%
Organofunctional silane	Trade secret	0.1 - 1.0%
Organotin Compounds	Trade secret	0.1 - 1.0%

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

Trade secret information: ** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4 First-aid measures

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

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

Skin Contact: Wash with plenty of water/... Get medical attention promptly if symptoms occur after washing.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

5 Fire-fighting measures

Extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: No data available.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unprotected persons away. Remove sources of ignition. Use personal protective equipment. Keep upwind.

Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

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Methods or materials 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.

Prevention of secondary hazards: Remove sources of ignition.

7 Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Provide adequate general and local exhaust ventilation. Eyewash bottle with clean water.

Safe handling advice: "Wear eye, hand and respiratory protection when in handling." Keep away from sources of ignition - No smoking. Protect from moisture. Seal opened containers and use up as soon as possible. Alcohol released during curing. Use only with adequate ventilation.

Contact avoidance measures: No data available.

Hygiene measures: No data available.

Storage

Safe storage conditions: Store in a dark, cool place indoors, with container tightly closed.

Safe packaging materials: No data available.

8 Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits:

Chemical name	type	Exposure Limit Values	Regulation Sources
QUARTZ - Respirable dust.	CEILING	0.03 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
TITANIUM DIOXIDE - Respirable dust.	TWA	1 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
TITANIUM DIOXIDE - Total dust.	TWA	4 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
TITANIUM DIOXIDE	TWA	0.3 mg/m3	Japan. OELs - JSOH. (Japan

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Chemical name	type	Exposure Limit Values	Regulation Sources
			Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
Platinum and its water-soluble salts - as Pt	TWA	0.001 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)

Personal protective equipment (ppe)

- Respiratory Protection:** Gas mask with organic vapor canister and dust and mist filter.
- Eye Protection:** Safety glasses with side shields
- Hand Protection:** No data available.
- Skin and Body Protection:** Chemical resistant clothing Wear rubber boots.

9 Physical and chemical properties

Appearance

- Physical state:** liquid
- Form:** liquid
- Color:** White
- Odor:** Faint
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.
- Initial boiling point and boiling range:** No data available.
- Flash Point:** 132 °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.
- Vapor pressure:** No data available.
- Density:** 1.65 g/cm³ (25 °C)
- Vapor density:** No data available.
- Relative density:** ca. 1.65
- Solubility(ies)**

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Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	450 °C
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.

10 Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible Materials:	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.

11 Toxicological information

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)
Polyalkoxyaminosilane	LD 50 (Rat, male and female): ca. 4,666 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity))
Organotin Compounds	LD 50 (Rat, male and female): 2,071 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity)) Not classified Slightly toxic

Dermal

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Product: No data available.

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

Organotin Compounds LD 50 (Rat: > > 2,000 mg/kg (OECD-Guideline 402 (Acute Dermal Toxicity))
 Semi-occlusive

Inhalation

Product: No data available.

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

Specified substance(s):
 Organotin Compounds LC50 (Rat, No data available., 2.00 h): ca. 10 mg/l (No data available.)

Repeated dose toxicity

Product: No data available.

Specified substance(s):
 Organofunctional silane NOAEL (Rat, Oral, 90 d): 200 mg/kg

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.

Japan Society for Occupational Health: Carcinogen:

QUARTZ Overall evaluation: 1. Carcinogenic to humans.
 TITANIUM DIOXIDE Overall evaluation: 2B. Possibly carcinogenic to humans.
 Platinum and its water-soluble salts

Japan. ISHL Designated Carcinogen:

No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: QUARTZ

Overall evaluation: 1. Carcinogenic to humans. TITANIUM DIOXIDE Overall evaluation: 2B. Possibly carcinogenic to humans.

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ACGIH Carcinogen List:

US. National Toxicology Program (NTP) Report on Carcinogens:

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Organofunctional silane
Ames-Test: negative
Chinese Hamster Ovary (CHO): negative

In vivo

Product: No data available.

Specified substance(s):

Organofunctional silane
Micronucleus test (mouse): 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.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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Organofunctional silane	EC50 (Daphnia magna, 48 h): 331 mg/l
Organotin Compounds	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.

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

Silica (Consolidated % of No data available.

Silica regulated under ISHL)

TITANIUM DIOXIDE No data available.

Polyalkoxyaminosilane No data available.

Platinum and its water-soluble No data available.
 salts

Organofunctional silane No data available.

Organotin Compounds No data available.

Hazardous to the ozone layer: No data available.

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Other adverse effects: No data available.

13 Disposal considerations

General information: none

Disposal methods: This product falls under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with this law and local regulations.

Contaminated Packaging: No data available.

14 Transport information

International regulations

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

National Regulations

Domestic Standard: In compliance with domestic law.

15 Regulatory information

Law concerning Pollutant Release and Transfer Register

PRTR and Promotion of Chemical Management Law, new regulated substances (Cabinet Order No. 356, 2008):

Specified Class 1 substance(s): not applicable

Class 1 Substance(s): not applicable

Class 2 Substance(s): not applicable

Industrial Safety and Health Act:

Article 57-2 Regulated Substance(s): Silica (Consolidated % of Silica regulated under ISHL), Titanium (IV) oxide, Platinum and its water-soluble salts, Tin and its compounds,

Article 57 Regulated Substance(s) subject to labeling: Silica (Consolidated % of Silica regulated under ISHL), Titanium (IV) oxide,

ISHL Organic Solvents

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ISHL Designated or Specified Chemical Substances

Poisonous and Deleterious Substances Control Act:

Specified poisonous substance(s):

Main law: not applicable
Cabinet order: not applicable

Poisonous Substance(s): Main

law: not applicable **Cabinet order:** not applicable

Deleterious Substance(s): Main

law: not applicable **Cabinet order:** not applicable

High Pressure Gas Safety Law

not applicable

Fire Service Law:

Designated Combustible material (Combustible Solid) No fire

Japan CSCL: Priority Assessment Chemical Substances: not applicable

Act on Prevention of Marine Pollution and Maritime Disaster: not applicable

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 Chemical Substances:	y (positive listing)	Remarks: None.
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: None.
New Zealand Inventory of Chemicals:	n (Negative listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

16 Other Information

OTHER INFORMATION: Wear suitable protective clothing, gloves and eye/face protection.

Revision Information:

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Issue Date: 11/14/2016
SDS No.:
Disclaimer:

Notice to reader

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the body.

Further Information

Wear suitable protective clothing, gloves and eye/face protection.
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 warranty or 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.

Literature Reference: No data available.