

TSE 397 C

SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name): TSE 397 C
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

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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 |
| | Toxic to reproduction | Category 1B |
| | Toxic to reproduction | Category 1B |

GHS label elements

Symbol(s):



Signal Word: Danger

Hazard Statement(s): Causes serious eye irritation.
 Causes mild skin irritation.
 May damage fertility or the unborn child.

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. Wash hands thoroughly after handling.

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Response: IF exposed or concerned: 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 skin irritation occurs: Get medical advice/attention. 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 sealant

Mixtures

| Chemical Identity | CAS number | Concentration* |
|----------------------------------|--------------|----------------|
| Polyalkoxyaminosilane | Trade secret | 1.0 - 10% |
| gamma-Aminopropyltriethoxysilane | 919-30-2 | 0.1 - 1.0% |
| Organotin Compounds (19% as Tin) | 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 the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

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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.

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: Use personal protective equipment. Keep upwind. Keep unprotected persons away.

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

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.

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Safe packaging materials: No data available.

8 Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits:
 None known.

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 Safety shoes

9 Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Faint
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: Not applied
Initial boiling point and boiling range: Not applied **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.
Vapor pressure: Not applied
Density: 1.04 g/cm³ (25 °C)
Vapor density: No data available.
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.
 MSDS_JP

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Pow:

Auto-ignition temperature: 450 °C
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)

Other information

Minimum ignition temperature: 450 °C

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: 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.

11 Toxicological information

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.
Specified substance(s):

Polyalkoxyaminosilane LD 50 (Rat, male and female): ca. 4,666 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity))

Organotin Compounds (19% as Tin) LD 50 (Rat, male and female): 2,071 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity)) Not classified Slightly toxic

Dermal

Product: No data available.

Specified substance(s):

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Organotin Compounds (19% as Tin) LD 50 (Rat: > > 2,000 mg/kg (OECD-Guideline 402 (Acute Dermal Toxicity))
 Semi-occlusive

Inhalation

Product: No data available.

Specified substance(s):
 Organotin Compounds (19% as Tin) LC50 (Rat, 2.00 h): ca. 10 mg/l (No data available.)

Repeated dose toxicity

Product: No data available.

Specified substance(s):
 gamma-Aminopropyltriethoxysilane 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:

No carcinogenic components identified

Japan. ISHL Designated Carcinogen:

No carcinogenic components identified

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):
 gamma-Aminopropyltriethoxysilane Ames-Test: negative
 Chinese Hamster Ovary (CHO): negative

In vivo

Product: No data available.

Specified substance(s):
 gamma-Aminopropyltriethoxysilane Micronucleus test (mouse): negative

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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):

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

Organotin Compounds (19% as Tin) 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

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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

Polyalkoxyaminosilane No data available.

gamma- No data available.

Aminopropyltriethoxysilane

Organotin Compounds (19% No data available.

as Tin)

Hazardous to the ozone layer: No data available.

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: Dispose of as unused product.

14 Transport information

International regulations

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

National Regulations

MSDS_JP

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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): Tin and its compounds,

Article 57 Regulated Substance(s) subject to labeling: None Reported

ISHL Organic Solvents

not applicable

ISHL Designated or Specified Chemical Substances

not applicable

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:

Class 4, Group 3 oils Non-water soluble No fire Hazardous Rank: III

Japan CSCL: Priority Assessment Chemical Substances: not applicable

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

Inventory Status

Australia AICS:

n (Negative listing)

Remarks: None.

Canada DSL Inventory List:

q (quantity restricted)

Remarks: None.

EU EINECS List:

y (positive listing)

Remarks: None.

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|--|----------------------|----------------|
| Japan (ENCS) List: | y (positive listing) | Remarks: None. |
| China Inv. 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. |
| Taiwan Chemical Substance Inventory: | y (positive listing) | Remarks: None. |

16 Other Information

Revision Information:

Issue Date: 12/01/2017

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

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.