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TSE397-C

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: TSE397-C

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Silicone Elastomer Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials GmbH Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

Telephone : General information

00800.4321.1000 (Customer Service Centre)

1.4

Emergency telephone

number

Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Serious eye damage Category 2 H319: Causes serious eye irritation.

Toxic to reproduction Category 1B H360FD: May damage fertility. May damage the

unborn child.

Environmental Hazards

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment

effects.

2.2 Label Elements

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER,

METHOXY TERMINATED Dibutyltin Dilaurate



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Signal Words: Danger

Hazard Statement(s): H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310: Immediately call a POISON CENTER/doctor.

P308+P313: IF exposed or concerned: Get medical advice/attention.

Disposal: P501: 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.

Supplemental label information

Contains: gamma-AminopropyltriethoxysilaneDibutyltin Dilaurate

May produce an allergic reaction.

Unknown toxicity - Health

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

or mist

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 0 %

environment

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH	M-Factor:	Notes
				Registration		
				No.		

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CYCLOPENT YLSILAZANE- AMINOSILOX ANE COPOLYMER , METHOXY TERMINATED	1 - <3%	134759-20-9		No data available.	No data available.	
gamma- Aminopropyltri ethoxysilane	0,1 - <1%	919-30-2	213-048-4	01- 2119480479- 24-0002	No data available.	
Dibutyltin Dilaurate	0,3 - <1%	77-58-7	201-039-8	01- 2119496068- 27-0001	1	#
Decamethylcy clopentasiloxa ne	0,1 - <1%	541-02-6	208-764-9	01- 2119511367- 43-0002	No data available.	vPvB
Dodecamethyl cyclohexasilox ane	0,1 - <1%	540-97-6	208-762-8	01- 2119517435- 42-0001	No data available.	vPvB
Octamethylcyc lotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01- 2119529238- 36-0001	No data available.	PBT, vPvB

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

Classification

Chemical name	Classification	Notes
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	
gamma-	Skin Sens.: 1: H317; Acute Tox.: 4: H302; Skin Corr.: 1B:	No data
Aminopropyltriethoxysilane	H314; Eye Dam.: 1: H318;	available.
Dibutyltin Dilaurate	STOT SE: 1: H370; Skin Corr.: 1C: H314; Skin Sens.: 1:	No data
	H317; Eye Dam.: 1: H318; Muta.: 2: H341; Repr.: 1B:	available.
	H360FD; STOT RE: 1: H372; Aquatic Chronic: 1: H410;	No data
	Aquatic Acute: 1: H400;	available.
Decamethylcyclopentasilo	No data available.	
xane		
Dodecamethylcyclohexasil	No data available.	
oxane		
Octamethylcyclotetrasiloxa	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2:	No data
ne	H411;	available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical

advice/attention.

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^{##} This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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Skin Contact: After contact with skin, remove product mechanically. Wash area with soap

and water.

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

Consult a physician for specific advice.

4.2 Most important symptoms and effects, both acute and

delayed:

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!

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

No data available.

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

rinse mouth with water (only if the person is conscious). Product may hydrolyze upon contact with body fluids in the gastrointestinal tract to produce additional methanol. The potential for toxic effects due to methanol formation (eye damage and blindness, metabolic acidosis,

dizziness and drowsiness, fetal toxicity, and liver, kidney, and heart muscle

damage) should be recognized.

SECTION 5: Firefighting measures

General Fire Hazards: Prevent runoff from fire control or dilution from entering streams, sewers, or

drinking water supply.

5.1 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.

5.2 Special hazards arising from the substance or

mixture:

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.

5.3 Advice for firefighters Special fire fighting

procedures:

Product may charge electrostatically during pouring or filling. Take

precautionary measures against static discharges. Keep away from sources

of ignition - No smoking.

Special protective

equipment for fire-fighters:

Use standard firefighting procedures and consider the hazards of other

involved materials. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Use personal protective equipment. Keep container tightly closed and in a well-ventilated place. Caution:

Contaminated surfaces may be slippery.

6.2 Environmental Precautions: Prevent runoff from entering drains, sewers, or streams.

6.3 Methods and material for containment and cleaning up:

Use mechanical handling equipment. Shovel up and place in a container for salvage or disposal.

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6.4 Reference to other sections:

Remove sources of ignition.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Methanol is formed during processing. Wear appropriate personal

protective equipment.

Storage conditions: Keep away from sources of ignition - No smoking. Store in original

container.

7.2 Conditions for safe storage,

including any incompatibilities:

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

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Silica - Inhalable dust.	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Silica - Respirable dust.	TWA	2,4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

DNEL-Values

DIVEE- Values						
Critical component	Туре	Route of Exposure		Remarks		
Dibutyltin Dilaurate	Workers	Dermal	1 mg/kg bw/day			
-		Inhalation	0,07 mg/m3			
		Dermal	0,2 mg/kg bw/day			
		Inhalation	0,01 mg/m3			
	Consumers	Dermal	0,5 mg/kg bw/day			
		Inhalation	0,02 mg/m3			
		Ingestion	0,01 mg/kg bw/day			
		Dermal	0,08 mg/kg bw/day			
		Inhalation	0,003 mg/m3			
		Ingestion	0,002 mg/kg bw/day			

PNEC-Values

Critical component	Environmental compartment		Remarks
Dibutyltin Dilaurate	Water	0,463 µg/l	

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Seawater	0,0463 μg/l	
Intermittent rele	ase 4,63 µg/l	
freshwater sedir	ment 0,05 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
Saltwater Sedin	nent 0,005 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
soil	0,0407 mg/kg	
Sewage treatme	ent 100 mg/l	
Oral	0,2 mg/kg	

8.2 Exposure controls

Appropriate Engineering

Controls:

Eye wash facilities and emergency shower must be available when handling this product. Observe good industrial hygiene practices.

Individual protection measures, such as personal protective equipment

General information: Wear suitable gloves and eye/face protection.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: This recommendation is valid only for our Product as delivered. If

this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email:

vertrieb@kcl.de).
Material: 730 Camatril
Glove thickness: 0,4 mm
Guideline: EN 374

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

protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection mask with Filtertype ABEK

Hygiene measures: Avoid contact with eyes, skin, and clothing. Wash hands after handling.

When using do not eat or drink.

Environmental exposure

controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Faint

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:No data available.

Flash Point: 198 °C

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Evaporation Rate: No data available. Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: No data available. Vapor density (air=1): No data available. Density: > 1,04 g/cm3 (23 °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:

Autoignition Temperature: No data available.

Decomposition Temperature: No decomposition if stored and applied as directed.

SADT:

Viscosity, dynamic:

Viscosity, kinematic:

Solution

50.000 mPa·s (23 °C)

> 20,5 mm2/s (40 °C)

Explosive properties:

No data available.

Oxidizing properties:

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Hazardous polymerisation does not occur. Avoid contact with: Moisture.

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

10.5 Incompatible Materials: Moisture. Strong Acids, Strong Bases

10.6 Hazardous Decomposition

Products:

Carbon oxides Oxides of silicon. Generates methanol during cure.

Measurements at temperatures above 150°C in presence of air (oxygen)

have shown that small amounts of formaldehyde are formed due to

oxidative degradation.

SECTION 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.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

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Oral

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

LD 50 (Rat): 1.570 mg/kg

Specified substance(s)

CYCLOPENTYLSILAZA LD 50 (Rat): 4.666 mg/kg

NE-AMINOSILOXANE

COPOLYMER, METHOXY TERMINATED

gamma-

Aminopropyltriethoxysilan

е

Dibutyltin Dilaurate LD 50 (Rat): 2.071 mg/kg

Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas L

iloxane

Octamethylcyclotetrasilox

ane

No data available.

LD 50 (Rat): 2.000 mg/kg

LD 50 (Rat): 4.800 mg/kg

Dermal

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

Specified substance(s)

CYCLOPENTYLSILAZ No data available.

ANE-

AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-

Aminopropyltriethoxysil

ane

Dibutyltin Dilaurate LD 50 (Rat): > 2.000 mg/kg

Decamethylcyclopenta

siloxane

LD 50 (Rabbit): > 2.000 mg/kg

LD 50 (Rabbit): 4.290 mg/kg

Dodecamethylcyclohex

asiloxane

lohex LD 50 (Rat): 2.000 mg/kg

Octamethylcyclotetrasil

oxane

LD 50 (Rat): > 2.400 mg/kg

Inhalation

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

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE

COPOLYMER, METHOXY TERMINATED

gamma- LC50 (Rat, 6 h): Aminopropyltriethoxysilan LC50 (Rat, 6 h):

е

Dibutyltin Dilaurate No data available.

Decamethylcyclopentasil LC50 (Rat, 4 h): 8,67 mg/l

oxane

Dodecamethylcyclohexas No data available.

iloxane

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

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ane

Repeated dose toxicity

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE

COPOLYMER, **METHOXY TERMINATED** gamma-

NOAEL (Rat, Oral, 90 d): 200 mg/kg Aminopropyltriethoxysilan LOAEL (Rat, Oral, 90 d): 600 mg/kg

Dibutyltin Dilaurate

NOAEL (Rat(male and female), Oral, 28 d): 0,3 - 0,4 mg/l

NOAEL (Rat(males), Oral, 28 d): 1,9 - 2,3 mg/l NOAEL (Rat(female), Oral, 28 d): 1,7 - 2,3 mg/l

Decamethylcyclopentasil

oxane

NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg

NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm

Dodecamethylcyclohexas

iloxane

NOAEL (Rat(male and female), Oral): 1.000 mg/kg

Octamethylcyclotetrasilox

ane

NOAEL (Rat(male and female), Inhalation - vapor(vapour)): 150 mg/kg

NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL

(Rabbit(male and female), Dermal): 950 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZ Draize (Rabbit, 4 h): Slightly irritating.

ANE-

AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

gamma-OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h):

Aminopropyltriethoxysil Corrosive

Dibutyltin Dilaurate (Rabbit): Severe skin irritation. Decamethylcyclopentas

iloxane

OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohex

asiloxane

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h):

No skin irritation

Octamethylcyclotetrasil

oxane

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin

irritation

Serious Eye Damage/Eye

Irritation: Product:

No data available.

Specified substance(s)

CYCLOPENTYLSILAZ

Draize (Rabbit, 24 h): Corrosive Risk of serious damage to eyes.

ANE-

AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

gamma-OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h):

Aminopropyltriethoxysil Strongly irritating.

Dibutyltin Dilaurate OECD Test Guideline 405 (Rabbit, 21 d): Strongly irritating. Irritating to

eyes.

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Decamethylcyclopentas

iloxane

OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohex

asiloxane

OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No

eve irritation Not irritating

Octamethylcyclotetrasil

oxane

OECD-Guideline 405 (Acute Eve Irritation/Corrosion) (Rabbit): Not

irritating

Respiratory or Skin Sensitization:

Product:

No data available.

Specified substance(s)

CYCLOPENTYLSILAZ

No data available.

ANE-

AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

gamma-

Aminopropyltriethoxysil

Dibutyltin Dilaurate Decamethylcyclopentas

iloxane

Dodecamethylcyclohex

asiloxane

Octamethylcyclotetrasil

oxane

(Guinea Pig)positive

Maximisation Test, OECD Test Guideline 406 (Guinea Pig): Sensitizer LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA)

(Mouse): Non sensitizing.

Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea

Pig): negative

, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN

No data available.

E-AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

gamma-

Dibutyltin Dilaurate

Ames-Test: negative

Aminopropyltriethoxysilan

Chinese Hamster Ovary (CHO): negative Chromosomal aberration: negative

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mammalian cytogenicity test (OECD 476): negative

Decamethylcyclopentasil

oxane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guidline

476)): negative (not mutagenic)

Dodecamethylcyclohexas

Chromosomal aberration (OECD 473): negative (not mutagenic) Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella

typhimurium, Reverse Mutation Assay)): negative

iloxane

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)

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CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

gamma-Aminopropyltriethoxysilan

No data available.

(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Oral Dibutyltin Dilaurate

(Mouse)positive The health hazard evaluation is based on the toxicological

properties of a similar material.

Decamethylcyclopentasil

oxane

iloxane

(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation

(Rat, male and female)negative (not mutagenic) Vapor.

OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Dodecamethylcyclohexas Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal

(Mouse, male and female): negative

Octamethylcyclotetrasilox

ane

Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

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

Carcinogenicity

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN **E-AMINOSILOXANE**

COPOLYMER. **METHOXY TERMINATED**

gamma-No data available.

Aminopropyltriethoxysilan

Dibutyltin Dilaurate Decamethylcyclopentasil

oxane

Dodecamethylcyclohexas

iloxane

Octamethylcyclotetrasilox

No data available.

ane

Reproductive toxicity

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER,

METHOXY TERMINATED

gamma-

No data available.

Aminopropyltriethoxysilan

Dibutyltin Dilaurate Decamethylcyclopentasil No data available. No data available.

oxane

Dodecamethylcyclohexas

No data available.

iloxane

Octamethylcyclotetrasilox No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

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Specified substance(s)

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma- No data available.

Aminopropyltriethoxysilan

е

Dibutyltin Dilaurate No data available. Decamethylcyclopentasil No data available.

oxane

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma- No data available.

Aminopropyltriethoxysilan

е

Dibutyltin Dilaurate No data available. Decamethylcyclopentasil No data available.

oxane

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No data available.

ane

Aspiration Hazard

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN No data available. E-AMINOSILOXANE

COPOLYMER, METHOXY TERMINATED

gamma- No data available.

Aminopropyltriethoxysilan

е

Dibutyltin Dilaurate No data available. Decamethylcyclopentasil No data available.

oxane

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No data available.

ane

Other effects: No data available.

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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE

COPOLYMER, **METHOXY TERMINATED**

gamma-LC50 (Brachydanio rerio, 96 h): > 934 mg/l (OECD Test Guideline 203)

Aminopropyltriethoxysilan

Dibutyltin Dilaurate No data available.

Decamethylcyclopentasil

LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

oxane

Dodecamethylcyclohexas

iloxane

No data available.

Octamethylcyclotetrasilox

ane

No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE

COPOLYMER, **METHOXY TERMINATED**

gamma-EC50 (Daphnia magna, 48 h): 331 mg/l (OECD-Guideline 202)

Aminopropyltriethoxysilan

Dibutyltin Dilaurate EC50 (Daphnia magna, 48 h): < 0,463 mg/l (OECD Test Guideline 202)

Decamethylcyclopentasil

oxane

Fresh water EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

Dodecamethylcyclohexas

iloxane

No data available.

Octamethylcyclotetrasilox

ane

No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, **METHOXY**

TERMINATED gamma-No data available.

Aminopropyltriethoxysilan

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Dibutvltin Dilaurate

Decamethylcyclopentasil

oxane

NOEC (Oncorhynchus mykiss, 90 d): >= 0.0014 mg/l (OECD-Guideline 210) LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)

NOEC (Pimephales promelas, 49 d): 0.0044 mg/l

iloxane

Octamethylcyclotetrasilox

Dodecamethylcyclohexas

ane

No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, **METHOXY TERMINATED**

gamma-

Aminopropyltriethoxysilan

Dibutyltin Dilaurate

Decamethylcyclopentasil

oxane

iloxane

Dodecamethylcyclohexas

NOEC (Daphnia magna, 21 d): 0,0046 mg/l EC50 (Sediment Invertebrate, 28 d): > 420 mg/l LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

LOEC (Daphnia magna, 21 d): > 0.0015 mg/l

Octamethylcyclotetrasilox

No data available.

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA **NE-AMINOSILOXANE**

COPOLYMER, **METHOXY TERMINATED**

gamma-Aminopropyltriethoxysilan

Dibutvltin Dilaurate

Decamethylcyclopentasil

oxane

EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l

NOEC (Daphnia magna, 21 d): >= 0.0015 mg/l (OECD-Guideline 211)

NOEC (Desmodesmus subspicatus (green algae), 72 h): 1,3 mg/l

EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1 mg/l (OECD

Test Guideline 201) Fresh water

Test Guideline 201)

NOEC : >= 0.0012 mg/lEC10 : > 0.0012 mg/l

Dodecamethylcyclohexas

iloxane

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD

EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD

Test Guideline 201)

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l

(OECD Test Guideline 201)

Octamethylcyclotetrasilox

ane

No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

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CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, **METHOXY**

TERMINATED

gamma-Aminopropyltriethoxysilan (28 d): 67 % Not readily degradable. hydrolyses

Dibutyltin Dilaurate

Biological degradability (39 d): 23 % The product is not readily

biodegradable.

Decamethylcyclopentasil

oxane

activated sludge (adaptation not specified) (28 d. OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

No data available.

Dodecamethylcyclohexas

Octamethylcyclotetrasilox

iloxane

ane

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

Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

No data available. gamma-

Aminopropyltriethoxysilan

Dibutvltin Dilaurate No data available. Decamethylcyclopentasil No data available.

oxane

Dodecamethylcyclohexas No data available.

iloxane

Octamethylcyclotetrasilox No data available.

ane

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE COPOLYMER, **METHOXY TERMINATED**

Cyprinus carpio, Bioconcentration Factor (BCF): 3,4 (Measured) The gamma-

Aminopropyltriethoxysilan product is not bioaccumulating.

Dibutvltin Dilaurate The product is not bioaccumulating.

Decamethylcyclopentasil Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test

Guideline 305) No data available.

Dodecamethylcyclohexas

Octamethylcyclotetrasilox

iloxane

oxane

Fathead Minnow, Bioconcentration Factor (BCF): 12,40

ane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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CYCLOPENTYLSILAZANE -AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED gamma-

Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasilox

ane

Dodecamethylcyclohexasilo

xane

Octamethylcyclotetrasiloxa

ne

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

12.5 Results of PBT and vPvB

assessment:

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED gamma-

Aminopropyltriethoxysilane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very

Bioaccumulative (vPvB) No data available.

Not fulfilling PBT (persistent/bioacc umulative/toxic)

criteria, Not fulfilling vPvB

(very

persistent/very bioaccummulative

) criteria

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane

No data available.

vPvB: very persistent and

very

bioaccumulative substance.

Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for

Substances of very high concern

(SVHC)., However our understanding of the available science is that D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water,

to land, or to living organisms.

Dodecamethylcyclohexasiloxane

vPvB: very persistent and

very

bioaccumulative substance.

Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)...However our understanding of the available science is that D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms

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Octamethylcyclotetrasiloxane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) Octamethylcyclotetrasiloxane (D4) meets the current EU REACh Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.6 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

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

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Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:

Ī	Chemical name	CAS-No.	Concentration
	Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,2040%
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,1730%
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,1140%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
gamma-Aminopropyltriethoxysilane	919-30-2	0,1 - 1,0%
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS: T (temporary special case) Remarks: None. Canada DSL Inventory List: q (quantity restricted) Remarks: None.

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EU EINECS List: y (positive listing) Remarks: None. y (positive listing) Remarks: None. Japan (ENCS) List: China Inv. Existing Chemical y (positive listing) Remarks: None.

Korea Existing Chemicals Inv. y (positive listing) Remarks: None.

(KECI):

Substances:

Canada NDSL Inventory: Remarks: None. n (Negative listing) Philippines PICCS: Remarks: None. y (positive listing) US TSCA Inventory: Remarks: None. v (positive listing) Taiwan Chemical Substance y (positive listing) Remarks: None.

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 includes the constituent monomers and other

reactants.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and No data available.

sources for data:

Wording of the H-statements in section 2 and 3

Flammable liquid and vapor. H226 H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317 Causes serious eye damage. H318 H319 Causes serious eye irritation.

Suspected of causing genetic defects. H341

May damage fertility. May damage the unborn child. H360FD

Suspected of damaging fertility. H361f H370 Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure. H372

Very toxic to aquatic life. H400

H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Eye Dam. 2, H319 Repr. 1B, H360FD Aquatic Chronic 3, H412

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, 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.

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