

TSE3661(C)

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by  
Regulation(EU) No. 2020/878

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

### 1.1 Product identifier

Product name: TSE3661(C)

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

Identified uses: Silicone Elastomer

Uses advised against: None known.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials GmbH  
Chempark Leverkusen Gebaeude V7  
DE - 51368 Leverkusen  
Germany

**Contact person** : commercial.services@momentive.com

**Telephone** : General information  
+390510924300 (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.**

#### Physical Hazards

Flammable liquids	Category 3	H226: Flammable liquid and vapor.
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#### Health Hazards

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Skin corrosion	Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Toxic to reproduction	Category 1B	H360D: May damage the unborn child.
Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.

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Specific Target Organ Toxicity - Repeated Exposure Category 2<sup>1</sup> H373: May cause damage to organs through prolonged or repeated exposure.

**Target Organs**

1. Respiratory Tract, Immune system

**2.2 Label Elements**

**Contains:**

gamma-Aminopropyltriethoxysilane  
 Aminoethyl aminopropyl trimethoxy silane  
 Silicic acid, ethyl ester  
 Dioctyltin dilaurate (16% as Tin)



**Signal Words:**

Danger

**Hazard Statement(s):**

H226: Flammable liquid and vapor.  
 H302: Harmful if swallowed.  
 H314: Causes severe skin burns and eye damage.  
 H317: May cause an allergic skin reaction.  
 H360D: May damage the unborn child.  
 H335: May cause respiratory irritation.  
 H373: May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:**

P201: Obtain special instructions before use.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P310: Immediately call a POISON CENTER or doctor/ physician.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.  
 P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403+P235: Store in a well-ventilated place. Keep cool.

**Unknown toxicity - Health**

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

**Additional Information:** No data available.

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**2.3 Other hazards**

**Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**Chemical nature:** Silicone catalyst mixture

**3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
gamma-Aminopropyltriethoxysilane	25 - <50%	919-30-2	213-048-4	01-2119480479-24-XXXX	Not applicable	
Aminoethyl aminopropyl trimethoxy silane	20 - <50%	1760-24-3	217-164-6	01-2119970215-39-XXXX	Not applicable	
Silicic acid, ethyl ester	10 - <25%	11099-06-2	234-324-0	No data available.	Not applicable	
Tris(3(trimethoxysilyl)propyl)isocyanurate	10 - <25%	26115-70-8	247-465-8	01-2120807606-55-XXXX	Not applicable	
Dioctyltin dilaurate (16% as Tin)	1 - <5%	3648-18-8	222-883-3	01-2119979527-19-XXXX	Not applicable	#
Tetraethyl Silicate	0,1 - <1%	78-10-4	201-083-8	01-2119496195-28-XXXX	Not applicable	#

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

# This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

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Chemical name	Classification	Notes
gamma-Aminopropyltriethoxysilane	Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318; Skin Sens.: 1: H317;	No data available.
Aminoethyl aminopropyl trimethoxy silane	Eye Dam.: 1: H318; STOT RE: 2: H373; Skin Sens.: 1: H317; Acute Tox.: 4: H332;	
Silicic acid, ethyl ester	Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319; Acute Tox.: 4: H302;	
Tris(3(trimethoxysilyl)propyl)isocyanurate	Acute Tox.: 4: H302;	
Diocetyl tin dilaurate (16% as Tin)	STOT RE: 1: H372; Repr.: 1B: H360D; No data available.	No data available.
Tetraethyl Silicate	Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Eye Dam.: 2: H319; STOT SE: 3: H335; No data available.	No data available.

CLP: Regulation No. 1272/2008.

**SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur.

**4.1 Description of first aid measures**

**Inhalation:** Move to fresh air. Get medical attention if symptoms occur.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention. Wash contaminated clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** Itching Redness

**4.3 Indication of any immediate medical attention and special treatment needed**

**Hazards:** This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene.

**Treatment:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If swallowed, do NOT induce vomiting. Give a glass of water.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

**5.1 Extinguishing media Suitable extinguishing media:**

Alcohol resistant foam. Carbon dioxide Dry chemical.

**Unsuitable extinguishing media:**

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

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- 5.2 Special hazards arising from the substance or mixture:** Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.
- 5.3 Advice for firefighters**  
**Special fire-fighting procedures:** Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.
- Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use personal protective equipment.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures:** Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazards. Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment.
- 6.2 Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.
- 6.3 Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Shovel up and place in a container for salvage or disposal.
- 6.4 Reference to other sections:** Prevent entry into waterways, sewer, basements or confined areas.

**SECTION 7: Handling and storage:**

- 7.1 Precautions for safe handling:** Do not breathe vapor/spray. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
- Storage conditions:** Keep away from heat, sparks and open flame. Keep container closed. Store in original container.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in tightly closed original container in a dry and cool 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	Type	Exposure Limit Values	Source
Diocetyl tin dilaurate (16% as Tin) - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Tetraethyl Silicate	TWA	5 ppm 44 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (02 2017)
	TWA	5 ppm 44 mg/m3	EU. Scientific Committee on Occupational

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			Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)
	TWA	5 ppm 44 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (08 2018)
Ethanol	TWA	1.000 ppm 1.920 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

**Biological Limit Values**

None.

**DNEL-Values**

Critical component	Type	Route of Exposure		Remarks	
Tetraethyl Silicate	Workers	Dermal	12,1 mg/kg bw/day		
		Inhalation	85 mg/m3		
			85 mg/m3		
	Consumers	Dermal	12,1 mg/kg bw/day		
		Inhalation	85 mg/m3		
			85 mg/m3		
	Consumers	Dermal	8,4 mg/kg bw/day		
		Inhalation	25 mg/m3		
				25 mg/m3	
			Dermal	8,4 mg/kg bw/day	
		Inhalation	25 mg/m3		
			25 mg/m3		

**PNEC-Values**

Critical component	Environmental compartment		Remarks
Tetraethyl Silicate	Water	0,192 mg/l	
	Seawater	0,0192 mg/l	
	Intermittent release	10 mg/l	
	Sediment	0,18 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	soil	0,05 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	Sewage treatment plant	4000 mg/l	

**8.2 Exposure controls**

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**General information:** Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Practice good housekeeping.

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

**Skin protection**  
**Hand Protection:** Advice: Nitrile rubber.

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

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Combination filtering device (EN 14387) Respiratory protection mask with Filtertype ABEK

**Hygiene measures:** Avoid contact with eyes. When using do not smoke. Wash thoroughly after handling.

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**Environmental exposure controls:**

No release to wastewater from process as such, wastewater emissions limited to release generated from final equipment cleaning step using water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Blue-green
<b>Odor:</b>	Faint
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	Not applicable
<b>Boiling Point:</b>	Not determined.
<b>Flash Point:</b>	58 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	Not applicable
<b>Relative vapor density:</b>	No data available.
<b>Density:</b>	1,04 g/cm <sup>3</sup> (23 °C)
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.

<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	10 mPa·s (23 °C)
<b>Viscosity, kinematic:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**9.2 Other information**

No data available.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>10.4 Conditions to avoid:</b>	Reacts with water or moisture to form: Ethanol. Methanol
<b>10.5 Incompatible Materials:</b>	Strong Acids, Strong Bases

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**10.6 Hazardous Decomposition Products:** Carbon oxides Oxides of silicon. 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:** Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

**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**

**Oral**

**Product:** ATEmix: 868,12 mg/kg  
**Specified substance(s)**  
 gamma-Aminopropyltriethoxysilane  
 Aminoethyl aminopropyl trimethoxy silane  
 Silicic acid, ethyl ester  
 Tris(3(trimethoxysilyl)propyl)isocyanurate  
 Dioctyltin dilaurate (16% as Tin)  
 Tetraethyl Silicate

No data available.  
 LD 50 (Rat): 2.995 mg/kg  
 No data available.  
 LD 50 (Rat): 1.713 mg/kg  
 No data available.  
 No data available.

**Dermal**

**Product:** Not classified for acute toxicity based on available data.  
**Specified substance(s)**  
 gamma-Aminopropyltriethoxysilane  
 Aminoethyl aminopropyl trimethoxy silane  
 Silicic acid, ethyl ester  
 Tris(3(trimethoxysilyl)propyl)isocyanurate  
 Dioctyltin dilaurate (16% as Tin)  
 Tetraethyl Silicate

No data available.  
 LD 50 (Rabbit): > 2.000 mg/kg  
 No data available.  
 LD 50 (Rabbit): > 19.200 mg/kg  
 No data available.  
 No data available.

**Inhalation**

**Product:** Dusts, mists and fumes: ATEmix5,43 mg/l  
**Specified substance(s)**  
 gamma-Aminopropyltriethoxysilane

No data available.



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Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	NOAEL (Rat): 200 mg/kg/d (Rat(males)): 147 mg/m <sup>3</sup>
Aminoethyl aminopropyl trimethoxy silane	NOAEL (Rat, Oral, 28 d): >= 500 mg/kg
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	NOAEL (Rat(male and female), Oral, 28 d): 10 - 50 mg/kg LOAEL (Mouse(males), Inhalation, 28 d): 50 mg/kg

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 404 (Rabbit): No skin irritation
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) Non irritating
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	OECD Test Guideline 404 (Rabbit): Non irritating

**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 405 (Rabbit): Strongly irritating.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) Not irritating No eye irritation
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

**Respiratory or Skin Sensitization:**

**Product:** No data available.

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**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	Bühler-Patch-Test skin sensitisation on guinea pigs, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Sensitizing
Aminoethyl aminopropyl trimethoxy silane	, OECD Guideline 429 (LLNA) (Guinea Pig)positive
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	, OECD-Guideline 406 (Skin Sensitisation)Not a skin sensitizer.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	Sensitisation, skin, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Non sensitizing.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	(OECD 471, 490, 487)negative
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	Chinese Hamster Ovary (CHO) (OECD 476): negative Chromosomal aberration (OECD 473): negative

**In vivo**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.

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Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Dioctyltin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane No data available.  
 Aminoethyl aminopropyl trimethoxy silane No data available.  
 Silicic acid, ethyl ester No data available.  
 Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Dioctyltin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane No data available.  
 Aminoethyl aminopropyl trimethoxy silane No data available.  
 Silicic acid, ethyl ester No data available.  
 Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Dioctyltin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane No data available.  
 Aminoethyl aminopropyl trimethoxy silane No data available.  
 Silicic acid, ethyl ester No data available.  
 Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Dioctyltin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**Target Organs:**

respiratory tract irritation

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

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gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Components:**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**Other effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	LC 50 (96 h): > 110 mg/l (OECD-Guideline 203 (Fish, Acute Toxicity Test))
Aminoethyl aminopropyl trimethoxy silane	LC50 (Lepomis macrochirus): > 100 mg/l
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	LC50 (Brachydanio rerio, 96 h): > 245 mg/l (Tested according to Directive 92/69/EEC.)

**Aquatic Invertebrates**

**Product:** No data available.

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<b>Specified substance(s)</b>	
gamma-Aminopropyltriethoxysilane	EC50 (Daphnia, 48 h): > 100 mg/l (OECD Test Guideline 202)
Aminoethyl aminopropyl trimethoxy silane	EC50 (Daphnia magna, 48 h): 87,4 mg/l
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	EC50 (Daphnia magna, 48 h): > 75 mg/l (OECD-Guideline 202)

**Chronic Toxicity**

**Fish**

**Product:** No data available.

<b>Specified substance(s)</b>	
gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**Aquatic Invertebrates**

**Product:** No data available.

<b>Specified substance(s)</b>	
gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

<b>Specified substance(s)</b>	
gamma-Aminopropyltriethoxysilane	EC50 (72 h): > 3,6 mg/l (OECD Test Guideline 201)
Aminoethyl aminopropyl trimethoxy silane	EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): 8,8 mg/l NOEC (Algae (Pseudokirchneriella subcapitata)): 3,1 mg/l
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Dioctyltin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD

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Test Guideline 201)

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	(28 d): 34 % The product is not readily biodegradable.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	activated sludge, domestic (adaptation not specified) (28 d, OECD-Guideline 301 A (DOC Die-Away Test)): 98 % Readily biodegradable

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.
Diocetyl tin dilaurate (16% as Tin)	No data available.
Tetraethyl Silicate	No data available.

**12.4 Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

gamma-Aminopropyltriethoxysilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.
Silicic acid, ethyl ester	No data available.
Tris(3(trimethoxysilyl)propyl)isocyanurate	No data available.

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Diocetyl tin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**12.5 Results of PBT and vPvB assessment:**  
 gamma-Aminopropyltriethoxysilane No data available.  
 Aminoethyl aminopropyl trimethoxy silane No data available.  
 Silicic acid, ethyl ester No data available.  
 Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Diocetyl tin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**12.6 Endocrine disrupting properties:**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:**  
 gamma-Aminopropyltriethoxysilane No data available.  
 Aminoethyl aminopropyl trimethoxy silane No data available.  
 Silicic acid, ethyl ester No data available.  
 Tris(3(trimethoxysilyl)propyl)isocyanurate No data available.  
 Diocetyl tin dilaurate (16% as Tin) No data available.  
 Tetraethyl Silicate No data available.

**12.7 Other adverse effects:**

**Other hazards**  
**Product:** No data available.

**Additional Information:** Ecotoxicological data for this product is not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** See Section 8 for information on appropriate personal protective equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** No data available.

**SECTION 14: Transport information**

**ADR**  
 14.1 UN number or ID number: UN 2920

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14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(gamma-Aminopropyltriethoxysilane, Aminoethyl aminopropyl trimethoxysilane)
14.3 Transport Hazard Class(es)	
Class:	8 (3)
Label(s):	8, 3
Hazard No. (ADR):	83
Tunnel restriction code:	(D/E)
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
Marine Pollutant	No

**ADN**

14.1 UN number or ID number:	UN 2920
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(gamma-Aminopropyltriethoxysilane, Aminoethyl aminopropyl trimethoxysilane)
14.3 Transport Hazard Class(es)	
Class:	8 (3)
Label(s):	8, 3
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
Marine Pollutant	No

**RID**

14.1 UN number or ID number:	UN 2920
14.2 UN Proper Shipping Name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(gamma-Aminopropyltriethoxysilane, Aminoethyl aminopropyl trimethoxysilane)
14.3 Transport Hazard Class(es)	
Class:	8 (3)
Label(s):	8, 3
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
Marine Pollutant	No

**IMDG**

14.1 UN number or ID number:	UN 2920
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(gamma-Aminopropyltriethoxysilane, Aminoethyl aminopropyl trimethoxy silane)
14.3 Transport Hazard Class(es)	
Class:	8 (3)
Label(s):	8, 3
EmS No.:	F-E, S-C
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
Marine Pollutant:	No

**IATA**

14.1 UN number or ID number:	UN 2920
14.2 Proper Shipping Name:	Corrosive liquid, flammable, n.o.s.(gamma-Aminopropyltriethoxysilane, Aminoethyl aminopropyl trimethoxy silane)
14.3 Transport Hazard Class(es):	
Class:	8 (3)
Label(s):	8, 3



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14.4 Packing Group: II  
 14.5 Environmental Hazards: No  
 Marine Pollutant: No

**14.6 Special precautions for user:** Keep away from foodstuffs and animal feed.

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

Not applicable

**SECTION 15: Regulatory information**

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

**EU Regulations**

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** none

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:** none

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

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

Chemical name	CAS-No.	Concentration
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%

**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
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	0 - <=2,5938%

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

Chemical name	CAS-No.	Concentration
gamma-Aminopropyltriethoxysilane	919-30-2	30 - 40%
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%
Tetraethyl Silicate	78-10-4	0,1 - 1,0%
Ethanol	64-17-5	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.:**

Chemical name	CAS-No.	Concentration
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:**

Chemical name	CAS-No.	Concentration
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Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%
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**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

Classification	Lower-tier Requirements	Upper-tier Requirements
P5b. Flammable liquids	50 t	200 t
P5c. Flammable liquids	5.000 t	50.000 t
P5a. Flammable liquids	10 t	50 t
Anhydrous Ammonia		

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

Chemical name	CAS-No.	Concentration
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%

**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	30 - 40%
Diocetyl tin dilaurate (16% as Tin)	3648-18-8	1,0 - 10%
Tetraethyl Silicate	78-10-4	0,1 - 1,0%
Ethanol	64-17-5	0,1 - 1,0%

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**Inventory Status**

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory 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:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.
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.	Remarks: None.

**SECTION 16: Other information**

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**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

**Training information:** No data available.

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

Flam. Liq. 3, H226  
Acute Tox. 4, H302  
Skin Corr. 1B, H314  
Skin Sens. 1, H317  
STOT SE 3, H335  
Aquatic Chronic 2, H411

**Issue Date:** 12.12.2022

**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 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.

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