

**MATERIAL: TECHSIL® RTV12BE**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

<b>1.1</b>	<b>Product Name:</b>	Techsil® RTV12BE
<b>1.2</b>	<b>Product Use:</b>	Sealant
<b>1.3</b>	<b>Supplier:</b>	Techsil Ltd 34 Bidavon Industrial Estate Waterloo Road Bidford on Avon Warwickshire B50 4JN Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: <a href="mailto:sales@techsil.co.uk">sales@techsil.co.uk</a>
<b>1.4</b>	<b>Emergency Telephone:</b>	+44(0)7971 228794

**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.

**Health Hazards**

Skin irritation

Category 2 H315: Causes skin irritation.

Serious eye damage

Category 1 H318: Causes serious eye damage.

Skin sensitizer

Category 1 H317: May cause an allergic skin reaction

Specific Target Organ Toxicity-  
Repeated Exposure

Category 1 H372: Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard

Category 1 H304: May be fatal if swallowed and enters airways.

Target Organs

**2.2 Label Elements:**

**Contains**

Solvent Naphtha

3-Aminopropyltriethoxysilane

**Hazard Pictograms:**



**Hazard Statement(s):**

- H226: Flammable liquid and vapor
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H304: May be fatal if swallowed and enters airways.
- H372: Causes damage to organs through prolonged or repeated exposure.

**Contact Details**

Techsil Ltd  
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QF21 Rev 2 (June 2016)

**Precautionary Statements:**

- Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331: Do NOT induce vomiting.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
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.  
P370+P378: In case of fire: Use alcohol resistant foam for extinction.

Unknown toxicity - Health

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

**2.3 Other Hazards:**

No data available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures:**

General information

No data available.

**Solvent Naphtha**

Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
50 - <100%	64742-88-7	265-191-7	No data available.	No data available.	#

**3-Aminopropyltriethoxysilane**

10 - <25%	919-30-2	213-048-4	01- 2119480479-24-0002	No data available.	
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**Silicic acid, ethyl ester**

5 - <10%	11099-06-2	234-324-0	No data available.	No data available.	
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**Tetraethyl Silicate**

1 - <5%	78-10-4	201-083-8	01-2119496195-28-0002	No data available.	#
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**ALKYL TIN CARBOXYLA TE (27% as Tin)**

1 - <5%	43136-18-1	256-113-2	No data available.	No data available.	#
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\*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.

Chemical Name	Classification	Notes
Solvent Naphtha	STOT RE: 1: H372; Asp. Tox.: 1: H304;	No data available

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3-Aminopropyltriethoxysilane	Skin Sens.: 1: H317; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318;	No data available.
Silicic acid, ethyl ester	Flam. Liq.: 3: H226; STOT SE: 3: H335; Eye Dam.: 2: H319; Acute Tox.: 4: H302;	
Tetraethyl Silicate	Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Eye Irrit.: 2: H319; STOT SE: 3: H335;	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	Acute Tox.: 4: H302;	

CLP: Regulation No. 1272/2008.

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of First Aid Measures:

- Inhalation : Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Get medical attention.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
- 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
- Ingestion : Do NOT induce vomiting. If conscious, drink plenty of water. Get medical attention immediately. Do not give victim anything to drink if he is unconscious.

##### 4.2 Most Important Symptoms and Effects, both Acute and Delayed:

No data available

##### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

**Hazards:** No data available

**Treatment:** No data available

#### 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.

##### 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 Fire-fighters:

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:**

Wear self-contained breathing apparatus and protective clothing

#### 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.

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- 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 handling: 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 and Incompatibilities:**  
Store in tightly closed original container in a dry and cool place.  
Material is stable under normal conditions.
- 7.3 Specific End Use(s):**  
No data available.

**SECTION 8: HANDLING AND STORAGE**

**8.1 Control Parameters:**  
Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Solvent Naphtha	TWA	20 ppm 116 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL (2014)
	STEL	50 ppm 290 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL (2014)
Tetraethyl Silicate	TWA	5 ppm 44mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017)
	TWA	5 ppm 44mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL (2014)
ALKYL TIN CARBOXYLATE (27% as Tin) - as Sn	TWA	0.1mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	0.2mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Ethanol	TWA	1.000ppm 1.920mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

**Biological Limit Values**  
None

**DNEL-Values**

**Contact Details**

Critical component	Type	Route of Exposure		Remarks	
Tetraethyl Silicate	Workers	Dermal	12,1 mg/kg bw/day		
		Inhalation	85 mg/m <sup>3</sup>		
			85 mg/m <sup>3</sup>		
			Dermal	12,1 mg/kg bw/day	
			Inhalation	85 mg/m <sup>3</sup>	
				85 mg/m <sup>3</sup>	
	Consumers	Dermal	8,4 mg/kg bw/day		
		Inhalation	25 mg/m <sup>3</sup>		
			25 mg/m <sup>3</sup>		
			Dermal	8,4 mg/kg bw/day	
			Inhalation	25 mg/m <sup>3</sup>	
				25 mg/m <sup>3</sup>	

**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:**

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Provide adequate ventilation if fumes or vapors are generated.

**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: Protective gloves made of: Neoprene Nitrile rubber. Polyvinyl chloride (PVC).

Other : Safety shoes Wear suitable protective clothing.

Respiratory Protection : Respirator with a vapour filter (EN 141) At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

Hygiene measures : No data available.

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**

**Contact Details**

**9.1 Information on Basic Physical and Chemical Properties:**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Blue
<b>Odor</b>	Pungent
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available
<b>Boiling Point:</b>	153 °C
<b>Flash Point:</b>	32,2 °C estimated
<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>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	0,98
<b>Solubility(ies)</b>	No data available.
<b>Solubility in Water:</b>	No data available.
<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 data available
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	< 20,5 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**Contact Details**

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity:**  
No data available.
- 10.2 Chemical Stability:**  
Material is stable under normal conditions.
- 10.3 Possibility of Hazardous Reactions:**  
Hazardous polymerisation does not occur
- 10.4 Conditions to Avoid:**  
Keep away from sources of ignition - No smoking. Moisture
- 10.5 Incompatible Materials:**  
Water. Acids. Bases. Peroxides.
- 10.6 Hazardous Decomposition Products:**  
Carbon oxides Oxides of silicon.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**General information:** This product is not tested.

**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: 2.920,05 mg/kg  
**Specified substance(s)**  
Solvent Naphtha LD 50 (Rat): 6.500 mg/kg  
3-Aminopropyltriethoxysilane LD 50 (Rat): 1.570 mg/kg  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Dermal**

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

**Specified substance(s)**

Solvent Naphtha LD 50 (Rat): 3.000 mg/kg  
3-Aminopropyltriethoxysilane LD 50 (Rabbit): 4.290 mg/kg  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available  
(27% as Tin)

**Inhalation**

**Product:** ATEmix496,84 mg/l Vapour  
ATEmix67,75 mg/l Dusts, mists and fumes

**Specified substance(s)**

Solvent Naphtha LC50 (Rat, 4,00 h): 14 mg/l  
3-Aminopropyltriethoxysilane LC50 (Rat, 6 h):  
Silicic acid, ethyl ester LC50 (Rat, 6 h):  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Contact Details**

**Repeated dose toxicity**

Product:	No data available.
Specified substance(s)	No data available.
Solvent Naphtha	NOAEL (Rat, Oral, 90 d): 200 mg/kg
3-Aminopropyltriethoxysilane	LOAEL (Rat, Oral, 90 d): 600 mg/kg
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	NOAEL (Rat(male and female), Oral, 28 d): 10 - 50 mg/kg
ALKYL TIN CARBOXYLATE (27% as Tin)	LOAEL (Mouse(males), Inhalation, 28 d): 50 mg/kg No data available.

**Skin Corrosion/Irritation:**

Product:	No data available.
Specified substance(s)	No data available.
Solvent Naphtha	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h): Corrosive
3-Aminopropyltriethoxysilane	No data available.
Silicic acid, ethyl ester	OECD Test Guideline 404 (Rabbit): Non irritating
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**Serious Eye Damage/Eye**

Product:	No data available.
Specified substance(s)	No data available.
Solvent Naphtha	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): Strongly irritating.
3-Aminopropyltriethoxysilane	No data available.
Silicic acid, ethyl ester	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**Respiratory or Skin Sensitization:**

Product:	No data available.
Specified substance(s)	No data available.
Solvent Naphtha	(Guinea Pig)positive
3-Aminopropyltriethoxysilane	No data available.
Silicic acid, ethyl ester	Sensitisation, skin, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Non sensitizing.
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**Germ Cell Mutagenicity**

In vitro	No data available.
Product:	No data available.
Specified substance(s)	Ames-Test: negative
Solvent Naphtha	Chinese Hamster Ovary (CHO): negative
3-Aminopropyltriethoxysilane	Chromosomal aberration: negative
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	Chinese Hamster Ovary (CHO) (OECD 476): negative
ALKYL TIN CARBOXYLATE (27% as Tin)	Chromosomal aberration (OECD 473): negative No data available.

**Contact Details**



**In Vivo**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Carcinogenicity**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Reproductive toxicity**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Specific Target Organ Toxicity - Single Exposure**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Specific Target Organ Toxicity - Repeated Exposure**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Aspiration Hazard**

Product: No data available.  
Specified substance(s)  
Solvent Naphtha No data available.  
3-Aminopropyltriethoxysilane No data available.  
Silicic acid, ethyl ester No data available.  
Tetraethyl Silicate No data available.  
ALKYL TIN CARBOXYLATE No data available.  
(27% as Tin)

**Contact Details**

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

Acute toxicity

**Fish**

**Product:**

No data available.

Specified substance(s)

Solvent Naphtha

No data available.

3-Aminopropyltriethoxysilane

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

Silicic acid, ethyl ester

No data available.

Tetraethyl Silicate

LC50 (Brachydanio rerio, 96 h): > 245 mg/l (Tested according to Directive 92/69/EEC.)

ALKYL TIN CARBOXYLATE

No data available.

(27% as Tin)

**Aquatic Invertebrates**

Product:

No data available.

Specified substance(s)

Solvent Naphtha

No data available.

3-Aminopropyltriethoxysilane

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

Silicic acid, ethyl ester

No data available.

Tetraethyl Silicate

EC50 (Daphnia magna, 48 h): > 75 mg/l (OECD-Guideline 202)

ALKYL TIN CARBOXYLATE

No data available.

(27% as Tin)

Chronic Toxicity

**Fish**

Product:

No data available.

Specified substance(s)

Solvent Naphtha

No data available.

3-Aminopropyltriethoxysilane

No data available.

Silicic acid, ethyl ester

No data available.

Tetraethyl Silicate

No data available.

ALKYL TIN CARBOXYLATE

No data available.

(27% as Tin)

**Aquatic Invertebrates**

Product:

No data available.

Specified substance(s)

Solvent Naphtha

No data available.

3-Aminopropyltriethoxysilane

No data available.

Silicic acid, ethyl ester

No data available.

Tetraethyl Silicate

No data available.

ALKYL TIN CARBOXYLATE

No data available.

(27% as Tin)

**Toxicity to Aquatic Plants**

Product:

No data available.

Specified substance(s)

Solvent Naphtha

No data available.

3-Aminopropyltriethoxysilane

EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l NOEC (Desmodesmus subspicatus (green algae), 72 h): 1,3 mg/l

Silicic acid, ethyl ester

No data available.

Tetraethyl Silicate

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD Test Guideline 201)

ALKYL TIN CARBOXYLATE

No data available.

(27% as Tin)

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**12.2 Persistence and Degradability:**

**Biodegradation**

Product:	No data available.
Specified substance(s)	
Solvent Naphtha	No data available.
3-Aminopropyltriethoxysilane	(28 d): 67 % Not readily degradable. hydrolyses
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	activated sludge, domestic (adaptation not specified) (28 d, OECD-Guideline 301 A (DOC Die-Away Test)): 98 % Readily biodegradable
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**BOD/COD Ratio**

Product:	No data available.
Specified substance(s)	
Solvent Naphtha	No data available.
3-Aminopropyltriethoxysilane	No data available.
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**12.3 Bioaccumulative Potential:**

Product:	No data available.
Specified substance(s)	
Solvent Naphtha	No data available.
3-Aminopropyltriethoxysilane	Cyprinus carpio, Bioconcentration Factor (BCF): 3,4 (Measured) The product is not bioaccumulating
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**12.4 Mobility in Soil:**

Known or predicted distribution to environmental compartments	
Solvent Naphtha	No data available. 3-
Aminopropyltriethoxysilane	No data available.
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**12.5 Results of PBT and vPvB Assessment:**

Solvent Naphtha	No data available.
3-Aminopropyltriethoxysilane	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria, Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
Silicic acid, ethyl ester	No data available.
Tetraethyl Silicate	No data available.
ALKYL TIN CARBOXYLATE (27% as Tin)	No data available.

**12.6 Other Adverse Effects:**

No data available.

**Contact Details**

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

**SECTION 14: TRANSPORT INFORMATION**

**ADR**

**14.1 UN Number:**

UN 1993

**14.2 UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.(ETHYL SILICATE, TETRAETHYL SILICATE)

**14.3 Transport Hazard Class(es):**

Class: 3  
Label(s): 3  
Hazard No. (ADR): 30  
Tunnel restriction code: (D/E)

**14.4 Packing Group:**

III

**14.5 Environmental Hazards:**

Not regulated  
Marine Pollutant: No

**ADN**

**14.1 UN Number:**

UN 1993

**14.2 UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.(ETHYL SILICATE, TETRAETHYL SILICATE)

**14.3 Transport Hazard Class(es):**

Class: 3  
Label(s): 3

**14.4 Packing Group:**

III

**14.5 Environmental Hazards:**

Not regulated  
Marine Pollutant: No

**RID**

**14.1 UN Number:**

UN 1993

**14.2 UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.(ETHYL SILICATE, TETRAETHYL SILICATE)

**14.3 Transport Hazard Class(es):**

Class: 3  
Label(s): 3

**14.4 Packing Group:**

III

**14.5 Environmental Hazards:**

Not regulated  
Marine Pollutant: No

**Contact Details**

**IMDG**

**14.1 UN Number**

UN 1993

**14.2 UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.(ETHYL SILICATE, TETRAETHYL SILICATE)

**14.3 Transport Hazard Class(es):**

Class: 3  
Label(s): 3  
EmS No: F-R, S-E

**14.4 Packing Group:**

III

**14.5 Environmental Hazards:**

Not regulated  
Marine Pollutant: No

**IATA**

**14.1 UN Number:**

UN 1993

**14.2 UN Proper Shipping Name:**

FLAMMABLE LIQUID, N.O.S.(ETHYL SILICATE, TETRAETHYL SILICATE)

**14.3 Transport Hazard Class(es):**

Class: 3  
Label(s): 3

**14.4 Packing Group:**

III

**14.5 Environmental Hazards:**

Not regulated  
Marine Pollutant: No

**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 & 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: none

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

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

Chemical name	CAS-No.	Concentration
ALKYL TIN CARBOXYLATE (27% as Tin)	43136-18-1	1,0 - 10%
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
Solvent Naphtha	64742-88-7	60 - 70%

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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
Solvent Naphtha	64742-88-7	60 - 70%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances

Chemical name	CAS-No.	Concentration
Solvent Naphtha	64742-88-7	60 - 70%
Tetraethyl Silicate	78-10-4	1,0 - 10%
Ethanol	64-17-5	0,1 - 1,0%

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

Chemical name	CAS-No.	Concentration
ALKYL TIN CARBOXYLATE (27% as Tin)	43136-18-1	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
Solvent Naphtha	64742-88-7	60 - 70%
3-Aminopropyltriethoxysilane	919-30-2	20 - 30%
Tetraethyl Silicate	78-10-4	1,0 - 10%
Ethanol	64-17-5	0,1 - 1,0%

## 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out.

### Inventory Status

<b>Australia AICS:</b>	On or in compliance with the inventory	Remarks: None.
<b>Canada DSL Inventory List:</b>	On or in compliance with the inventory	Remarks: None.
<b>EINECS, ELINCS or NLP:</b>	On or in compliance with the inventory	Remarks: None.
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory	Remarks: None.
<b>China Inv. Existing Chemical Substances:</b>	On or in compliance with the inventory	Remarks: None.
<b>Korea Existing Chemicals Inv. (KECI):</b>	On or in compliance with the inventory	Remarks: None.
<b>Canada NDSL Inventory:</b>	On or in compliance with the inventory	Remarks: None.
<b>Philippines PICCS:</b>	On or in compliance with the inventory	Remarks: None.
<b>US TSCA Inventory:</b>	On or in compliance with the inventory	Remarks: None.
<b>New Zealand Inventory of Chemicals:</b>	On or in compliance with the inventory	Remarks: None.
<b>Taiwan Chemical Substance Inventory:</b>	On or in compliance with the inventory	Remarks: None.

## Contact Details

**SECTION 16: OTHER INFORMATION**

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

- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- 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

**DISCLAIMER**

This 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 other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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