

# TETRAETHOXYSILANE 99%

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

### 1.1. Product identifier

Product name: Tetraethoxysilane; 99%  
CAS Number: 78-10-4  
EC Number: 201-083-8

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

Product use: Laboratory chemicals, Industrial & for professional use only

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

Company name: East Harbour Group Ltd  
20 Clough Road, Severalls Industrial Park  
Colchester, Essex, CO4 9QS  
United Kingdom

Telephone: +44 (0) 333 242 0100  
Email: [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Product definition	Substance	
H226	FLAMMABLE LIQUIDS	Category 3
H332	ACUTE TOXICITY (inhalation)	Category 4
H319	SERIOUS EYE DAMAGE/ EYE IRRITATION	Category 2
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation)	

### 2.2 Label elements

Hazard pictograms



Signal word

Warning



# TETRAETHOXYSILANE 99%

### Hazard Statements

- H226 - Flammable liquid and vapor.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.

### Precautionary statements

- P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 - Avoid breathing vapor.
- P312 - Call a POISON CENTER or physician if you feel unwell.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Hazardous ingredients** Tetraethoxysilane

**Supplemental label elements** Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles** Not applicable.

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	P	B	T	VPvB	vP	vB
No	N/A	N/A	No	N/A	N/A	N/A

**Other hazards which do not result in classification** None known.

See Section 11 for more detailed information on health effects and symptoms.

## Section 3: Composition/information on ingredients

Substance/mixture Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors and ATEs	Type
Tetraethoxysilane	EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	100	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 11 mg/l	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

### Type

[1] Constituent



# TETRAETHOXYSILANE 99%

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

#### Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Protection of first aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed.

#### Potential acute health effects

##### Eye contact

Causes serious eye irritation.

##### Inhalation

Harmful if inhaled. May cause respiratory irritation.

#### Over-exposure signs/symptoms

##### Eye contact

Adverse symptoms may include the following:

Pain or irritation

Watering

Redness



# TETRAETHOXYSILANE 99%

**Inhalation** Adverse symptoms may include the following:  
Respiratory tract irritation  
Coughing

#### 4.3 Indication of any immediate medical attention and special treatment needed.

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media - Use dry chemical or CO<sub>2</sub>. or Sand.

Unsuitable extinguishing media - Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture.

**Hazards from the substance or mixture** - Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products** - Decomposition products may include the following materials: carbon dioxide; carbon monoxide; metal oxide/oxides.

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



## TETRAETHOXYSILANE 99%

**For emergency responders** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

### 6.3. Methods and material for containment and cleaning up

**Small Spill** - Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spill** - Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



## TETRAETHOXYSILANE 99%

### 7.2 Conditions for safe storage, including any incompatibilities.

Keep under inert atmosphere. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

Recommendations

Not available.

Industrial sector specific solutions

Not available.

## Section 8: Exposure controls/personal protection

This information in this section contains generic advice and guidance. The list of identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived effect levels

No DELs available

#### Predicted effect concentrations.

No PECs available

### 8.2 Exposure controls /

#### Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Use explosion-proof ventilation equipment.

#### Individual protection measures

#### Hygiene Measures



## TETRAETHOXYSILANE 99%

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid
Colour	Colourless
Odour	Characteristic
Odour threshold	Not available
pH	Not available
Melting point/freezing point	-77°C
Initial boiling point and boiling range	169°C



## TETRAETHOXYSILANE 99%

Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limit	Lower: 1,3%; Upper: 23%
Flash point	Closed cup: 45°C
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Dynamic: 0,6mPas
Solubility(ies)	Not available
Solubility at room temperature	Insoluble [H2O]
	Reacts
	3,18
	0,2kPa
	Not available
	Not available
	0,934 g/cm <sup>3</sup> [20°C]
	7,22 [Air=1]
	Not available
	Not available
<b>Particle characteristics</b>	
Median particle size	Not applicable

### 9.2 Other information

Burning time	Not applicable
Burning rate	Not applicable

No additional information

## Section 10: Stability and Reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical Stability

Moisture-sensitive material. Keep under an inert atmosphere.

### 10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

### 10.4 Conditions to avoid.

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. moisture

### 10.5 Incompatible materials

water acids alkalis oxidizing agent's metals Plastics.

### 10.6 Hazardous decomposition products

Ethanol



## TETRAETHOXYSILANE 99%

## Section 11: Toxicological Information

**11.1 Toxicological effects:**

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tetraethoxysilane	LD50 Oral	Rat	6270 mg/kg	-

**Conclusion/Summary** Not available.

## Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Tetraethoxysilane	6270	N/A	N/A	11	N/A

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tetraethoxysilane	Eyes – Mild irritant	Rabbit	-	100 milligrams	-
	Eyes – Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes – severe irritant	Guinea pig	-	2 hours 2500 parts per million	-

**Conclusion/Summary** Not available.**Sensitiser****Conclusion/Summary** Not available.**Mutagenicity****Conclusion/Summary** Not available.**Carcinogenicity****Conclusion/Summary** Not available.**Reproductive toxicity****Conclusion/Summary** Not available**Teratogenicity****Conclusion/Summary** Not available**Information on the likely routes of exposure** Not available**Potential acute health effects****Inhalation** Harmful if inhaled. May cause respiratory irritation.**Skin contact** No known significant effects or critical hazards.**Ingestion** No known significant effects or critical hazards**Eye contact** Causes serious eye irritation.**Symptoms related to the physical, chemical, and toxicological characteristics.****Inhalation** Adverse symptoms may include the following:

Respiratory tract irritation

Coughing

**Ingestion**

No specific data.



# TETRAETHOXYSILANE 99%

**Skin contact** No specific data.  
**Eye contact** Adverse symptoms may include the following:  
 Pain or irritation  
 Watering  
 Redness

**Delayed and immediate effects and also chronic effects from short- and long-term exposure**

**Short term exposure**

Potential immediate effects Not available  
 Potential delayed effects Not available

**Long term exposure**

Potential immediate effect Not available  
 Potential delay effects Not available

**Potential chronic health effects**

Not available  
 Conclusion/Summary Not available  
 General No known significant effects or critical hazards  
 Carcinogenicity No known significant effects or critical hazards  
 Mutagenicity No known significant effects or critical hazards  
 Teratogenicity No known significant effects or critical hazards  
 Developmental effects No known significant effects or critical hazards  
 Fertility effects No known significant effects or critical hazards

**11.2 Information on other hazards**  
**11.2.1 Endocrine disrupting properties**  
 Not available

**11.2.2 Other information**  
 Not available.

**Section 12: Ecological Information**

**12.1 Toxicity**  
 Conclusion/summary Not available

**12.2 Persistence and degradability**  
 Conclusion/Summary Not available

**12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Tetraethoxysilane	3,18	-	low

**12.4 Mobility in soil**  
 Soil/water partition coefficient (K<sub>oc</sub>) Not available  
 Mobility Not available



## TETRAETHOXYSILANE 99%

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	VPvB	vP	vB
Tetraethoxysilane	No	N/A	N/A	No	N/A	N/A	N/A

### 12.6 Endocrine disrupting properties

Not available

### 12.7 Other adverse effects

No known significant effects or critical hazards

## Section 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

#### Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

#### Packaging





#### Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID Number	UN1292	UN1292	UN1292	UN1292
14.2 UN proper shipping name	TETRAETHYL SILICATE	TETRAETHYL SILICATE	TETRAETHYL SILICATE	Tetraethyl silicate
14.3 Transport hazard classes	3 	3 	3 	3 



# TETRAETHOXYSILANE 99%

<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
<b>Additional information</b>	Hazard identification number 30 Limited quantity 5 L Tunnel code (D/E)	-	Emergency schedules F-E, S-D	Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.

### 14.7 Transport in bulk according to IMO instruments

Not available

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## Section 15: Regulatory Information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**



# TETRAETHOXYSILANE 99%

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles.**

Not applicable.

**Other EU regulations Industrial emissions (integrated pollution prevention and control) - Air**

Not listed

**Industrial emissions (integrated pollution prevention and control) - Water**

Not listed

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

<b>Category</b>
P5c

**International regulations**

**Chemical Weapon Convention List Schedules I,II & III Chemicals**

Not listed

**Montreal Protocol**

Not listed

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

China	This material is listed or exempted.
Canada	This material is listed or exempted.
Australia	This material is listed or exempted.
Eurasian Economic Union	Russian Federation inventory: Not determined.
Japan	Japan inventory (CSCL): This material is listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	This material is listed or exempted.
Philippines	This material is listed or exempted.
Republic of Korea	This material is listed or exempted.
Taiwan	This material is listed or exempted.
Thailand	Not determined.



# TETRAETHOXYSILANE 99%

Turkey	Not determined.
United States	Not determined.
Viet Nam	Not determined.

## 15.2 Chemical Safety Assessment

Not available.

## Section 16: Other Information

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	Expert judgment
Acute Tox. 4, H332	On basis of test data
Eye Irrit. 2, H319	Expert judgment
STOT SE 3, H335	Expert judgment

### Full text of abbreviated H statements

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

### Full text of classifications [CLP/GHS]

**Acute Tox. 4** ACUTE TOXICITY - Category 4

**Eye Irrit. 2** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**Flam. Liq. 3** FLAMMABLE LIQUIDS - Category 3

**STOT SE 3** SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

### Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3